



Appendix B

E-UTRA Band 71



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1 Effective (Isotropic) Radiated Power

1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	23.05	20.80	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	23.59	21.34	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	23.46	21.21	34.77	PASS
Band71	5MHz	QPSK	133147	12RB#0	22.42	20.17	34.77	PASS
Band71	5MHz	QPSK	133147	12RB#6	22.47	20.22	34.77	PASS
Band71	5MHz	QPSK	133147	12RB#13	22.42	20.17	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	22.68	20.43	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	23.17	20.92	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	23.58	21.33	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	23.13	20.88	34.77	PASS
Band71	5MHz	QPSK	133297	12RB#0	22.41	20.16	34.77	PASS
Band71	5MHz	QPSK	133297	12RB#6	22.51	20.26	34.77	PASS
Band71	5MHz	QPSK	133297	12RB#13	22.31	20.06	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	21.95	19.70	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	22.92	20.67	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	23.35	21.10	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	23.39	21.14	34.77	PASS
Band71	5MHz	QPSK	133447	12RB#0	22.22	19.97	34.77	PASS
Band71	5MHz	QPSK	133447	12RB#6	22.45	20.20	34.77	PASS
Band71	5MHz	QPSK	133447	12RB#13	22.46	20.21	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	22.13	19.88	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	21.59	19.34	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	22.62	20.37	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	21.44	19.19	34.77	PASS
Band71	5MHz	16QAM	133147	12RB#0	20.70	18.45	34.77	PASS
Band71	5MHz	16QAM	133147	12RB#6	21.23	18.98	34.77	PASS
Band71	5MHz	16QAM	133147	12RB#13	20.87	18.62	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	20.78	18.53	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	21.81	19.56	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	22.02	19.77	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	21.57	19.32	34.77	PASS
Band71	5MHz	16QAM	133297	12RB#0	20.79	18.54	34.77	PASS



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Band71	5MHz	16QAM	133297	12RB#6	20.94	18.69	34.77	PASS
Band71	5MHz	16QAM	133297	12RB#13	20.96	18.71	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	20.82	18.57	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	21.64	19.39	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	22.10	19.85	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	21.83	19.58	34.77	PASS
Band71	5MHz	16QAM	133447	12RB#0	20.61	18.36	34.77	PASS
Band71	5MHz	16QAM	133447	12RB#6	21.00	18.75	34.77	PASS
Band71	5MHz	16QAM	133447	12RB#13	20.96	18.71	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	20.67	18.42	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	23.18	20.93	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	24.16	21.91	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	22.85	20.60	34.77	PASS
Band71	10MHz	QPSK	133172	25RB#0	22.60	20.35	34.77	PASS
Band71	10MHz	QPSK	133172	25RB#12	22.45	20.20	34.77	PASS
Band71	10MHz	QPSK	133172	25RB#25	22.15	19.90	34.77	PASS
Band71	10MHz	QPSK	133172	50RB#0	22.03	19.78	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	23.04	20.79	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	23.66	21.41	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	22.73	20.48	34.77	PASS
Band71	10MHz	QPSK	133297	25RB#0	22.61	20.36	34.77	PASS
Band71	10MHz	QPSK	133297	25RB#12	22.47	20.22	34.77	PASS
Band71	10MHz	QPSK	133297	25RB#25	22.15	19.90	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	21.81	19.56	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	23.00	20.75	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	23.60	21.35	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	22.82	20.57	34.77	PASS
Band71	10MHz	QPSK	133422	25RB#0	22.29	20.04	34.77	PASS
Band71	10MHz	QPSK	133422	25RB#12	22.56	20.31	34.77	PASS
Band71	10MHz	QPSK	133422	25RB#25	22.31	20.06	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	21.69	19.44	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	21.75	19.50	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	21.92	19.67	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	20.91	18.66	34.77	PASS
Band71	10MHz	16QAM	133172	25RB#0	21.07	18.82	34.77	PASS
Band71	10MHz	16QAM	133172	25RB#12	21.02	18.77	34.77	PASS
Band71	10MHz	16QAM	133172	25RB#25	20.75	18.50	34.77	PASS
Band71	10MHz	16QAM	133172	27RB#0	20.91	18.66	34.77	PASS



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Band71	10MHz	16QAM	133297	1RB#0	21.18	18.93	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#24	22.41	20.16	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	21.48	19.23	34.77	PASS
Band71	10MHz	16QAM	133297	25RB#0	20.93	18.68	34.77	PASS
Band71	10MHz	16QAM	133297	25RB#12	21.06	18.81	34.77	PASS
Band71	10MHz	16QAM	133297	25RB#25	20.82	18.57	34.77	PASS
Band71	10MHz	16QAM	133297	27RB#0	20.93	18.68	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	21.58	19.33	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	22.21	19.96	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	21.62	19.37	34.77	PASS
Band71	10MHz	16QAM	133422	25RB#0	20.59	18.34	34.77	PASS
Band71	10MHz	16QAM	133422	25RB#12	20.94	18.69	34.77	PASS
Band71	10MHz	16QAM	133422	25RB#25	20.69	18.44	34.77	PASS
Band71	10MHz	16QAM	133422	27RB#0	20.78	18.53	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	23.11	20.86	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	23.66	21.41	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	23.03	20.78	34.77	PASS
Band71	15MHz	QPSK	133197	38RB#0	22.87	20.62	34.77	PASS
Band71	15MHz	QPSK	133197	38RB#18	23.81	21.56	34.77	PASS
Band71	15MHz	QPSK	133197	38RB#37	22.96	20.71	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	21.88	19.63	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	23.61	21.36	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	23.35	21.10	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	22.89	20.64	34.77	PASS
Band71	15MHz	QPSK	133297	38RB#0	23.19	20.94	34.77	PASS
Band71	15MHz	QPSK	133297	38RB#18	23.69	21.44	34.77	PASS
Band71	15MHz	QPSK	133297	38RB#37	23.39	21.14	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	21.91	19.66	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	23.29	21.04	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	23.41	21.16	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	23.30	21.05	34.77	PASS
Band71	15MHz	QPSK	133397	38RB#0	23.04	20.79	34.77	PASS
Band71	15MHz	QPSK	133397	38RB#18	23.45	21.20	34.77	PASS
Band71	15MHz	QPSK	133397	38RB#37	23.17	20.92	34.77	PASS
Band71	15MHz	QPSK	133397	75RB#0	21.81	19.56	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	21.64	19.39	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	22.14	19.89	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	21.56	19.31	34.77	PASS



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Band71	15MHz	16QAM	133197	27RB#0	20.94	18.69	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	21.71	19.46	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	22.46	20.21	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	21.33	19.08	34.77	PASS
Band71	15MHz	16QAM	133297	27RB#0	20.77	18.52	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	21.75	19.50	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	21.96	19.71	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	21.55	19.30	34.77	PASS
Band71	15MHz	16QAM	133397	27RB#0	20.71	18.46	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	23.11	20.86	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	9.13	6.88	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	23.45	21.20	34.77	PASS
Band71	20MHz	QPSK	133222	50RB#0	22.61	20.36	34.77	PASS
Band71	20MHz	QPSK	133222	50RB#25	22.61	20.36	34.77	PASS
Band71	20MHz	QPSK	133222	50RB#50	22.35	20.10	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	21.89	19.64	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	23.27	21.02	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	24.06	21.81	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#99	22.86	20.61	34.77	PASS
Band71	20MHz	QPSK	133322	50RB#0	22.62	20.37	34.77	PASS
Band71	20MHz	QPSK	133322	50RB#25	22.54	20.29	34.77	PASS
Band71	20MHz	QPSK	133322	50RB#50	22.21	19.96	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	21.80	19.55	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	23.24	20.99	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	23.92	21.67	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	22.95	20.70	34.77	PASS
Band71	20MHz	QPSK	133372	50RB#0	22.43	20.18	34.77	PASS
Band71	20MHz	QPSK	133372	50RB#25	22.56	20.31	34.77	PASS
Band71	20MHz	QPSK	133372	50RB#50	22.32	20.07	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	21.90	19.65	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	21.85	19.60	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	22.66	20.41	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	21.31	19.06	34.77	PASS
Band71	20MHz	16QAM	133222	27RB#0	20.75	18.50	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#0	21.52	19.27	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	22.52	20.27	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	20.87	18.62	34.77	PASS
Band71	20MHz	16QAM	133322	27RB#0	20.89	18.64	34.77	PASS



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Band71	20MHz	16QAM	133372	1RB#0	21.51	19.26	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	22.49	20.24	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	21.12	18.87	34.77	PASS
Band71	20MHz	16QAM	133372	27RB#0	20.83	18.58	34.77	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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Shenzhen Branch (CCC Laboratory)

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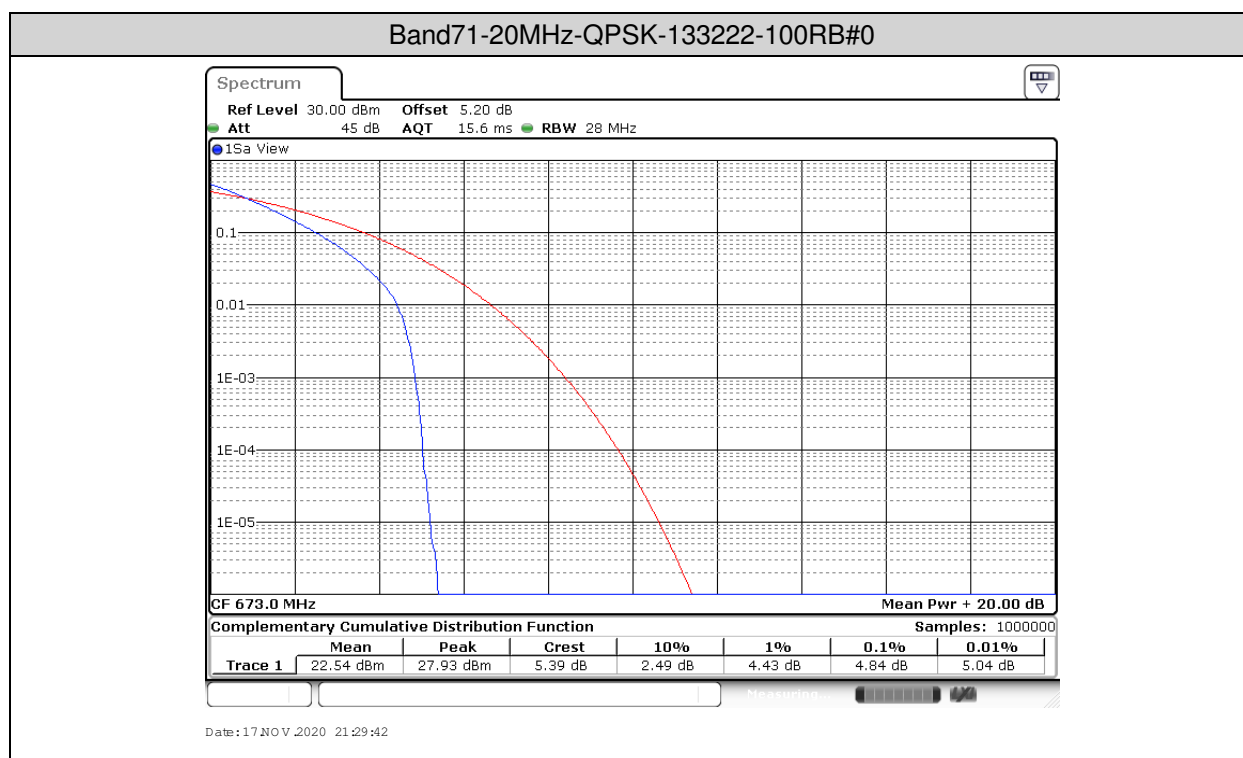
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2 Peak-to-Average Ratio (CCDF)

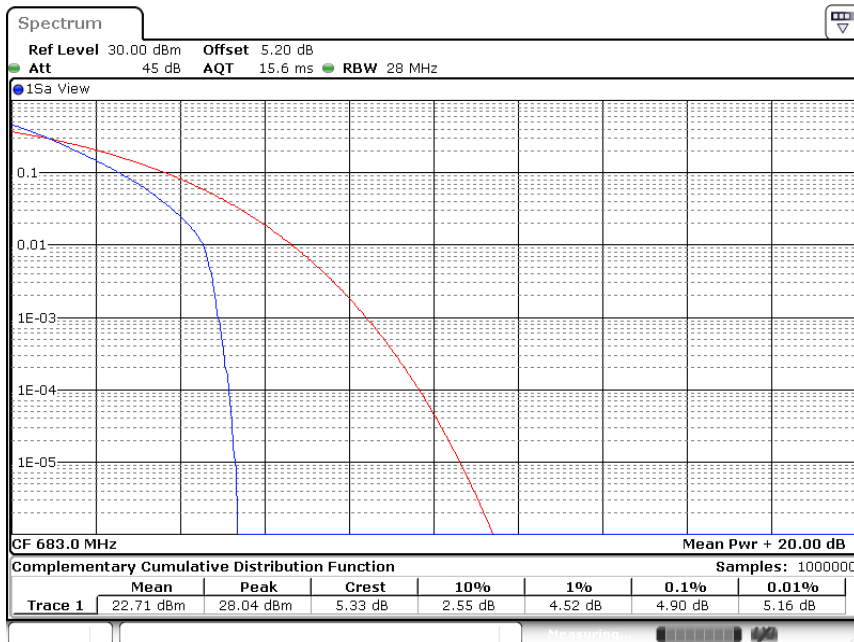
2.1 Test Result

Band	Bandwidth h	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	4.84	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	4.90	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	4.84	13	PASS
Band71	20MHz	16QAM	133222	27RB#0	5.71	13	PASS
Band71	20MHz	16QAM	133322	27RB#0	5.71	13	PASS
Band71	20MHz	16QAM	133372	27RB#0	5.71	13	PASS

2.2 Test Plots

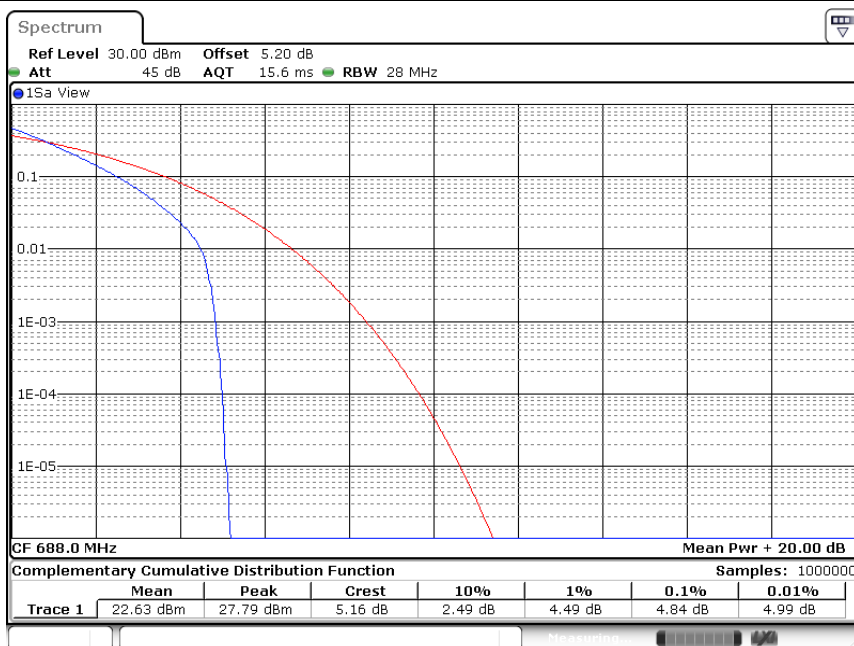


Band71-20MHz-QPSK-133322-100RB#0



Date: 17 NOV 2020 21:29:59

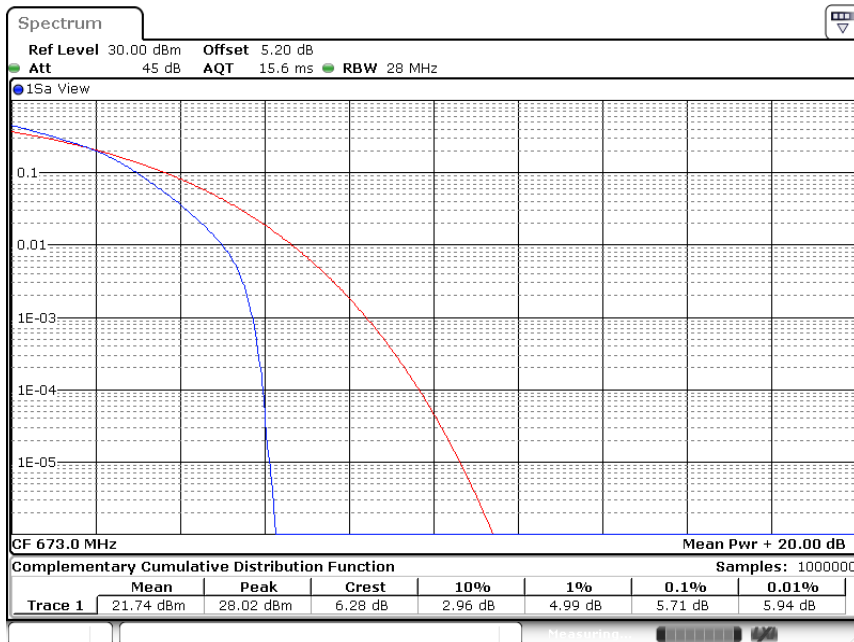
Band71-20MHz-QPSK-133372-100RB#0



Date: 17 NOV 2020 21:30:15

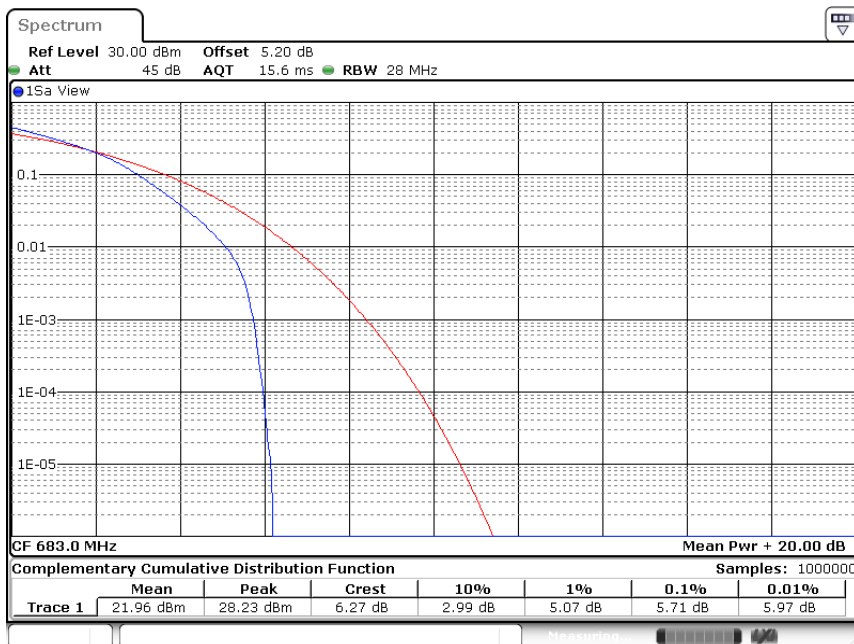


Band71-20MHz-16QAM-133222-27RB#0



Date: 18 NOV 2020 14:05:16

Band71-20MHz-16QAM-133322-27RB#0



Date: 18 NOV 2020 14:05:33

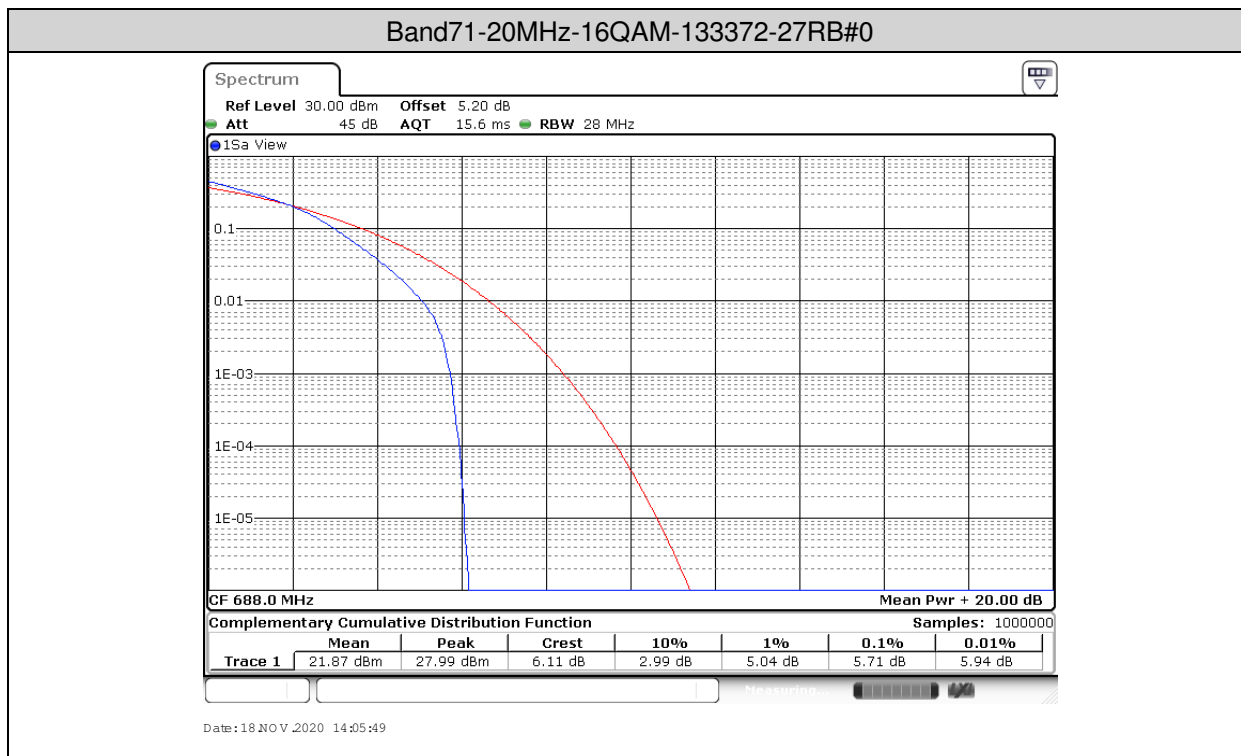


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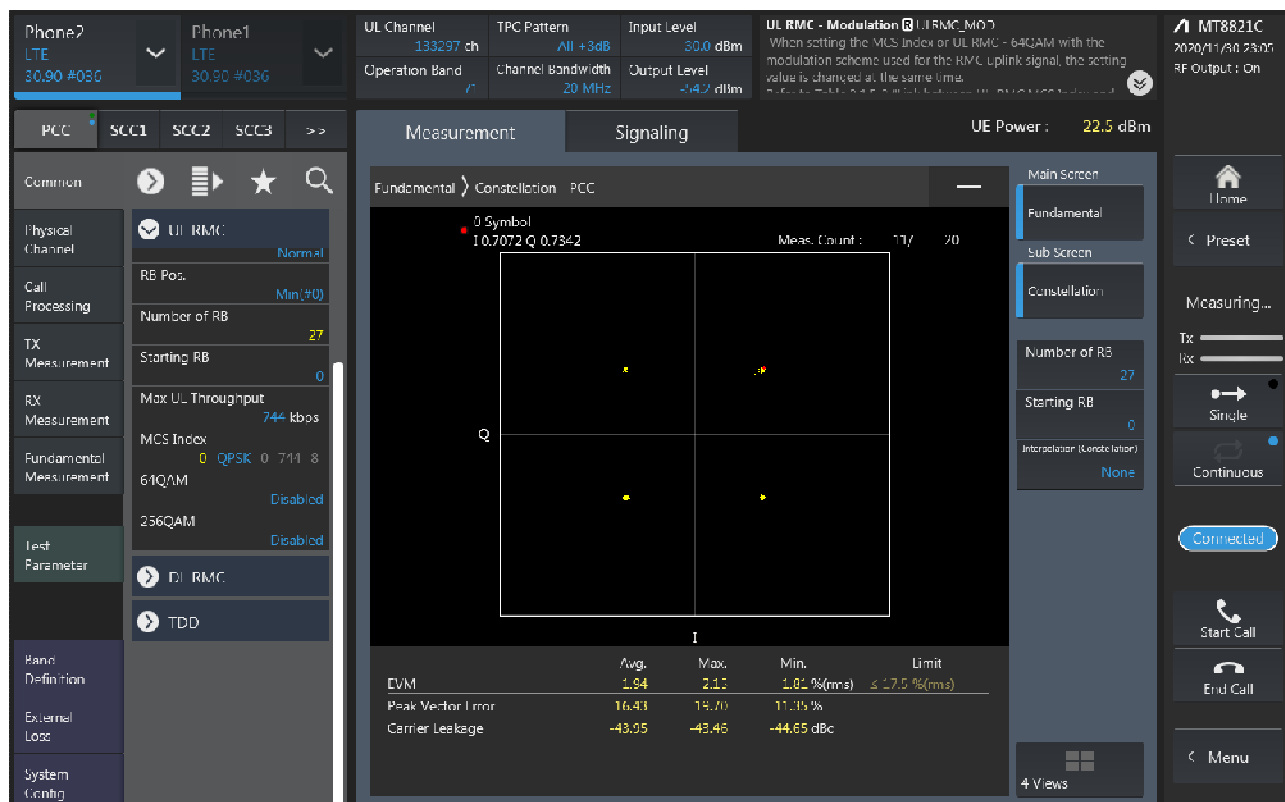


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3 Modulation Characteristics

3.1 Test Mode = LTE /TM1 20MHz

3.1.1 Test Channel = MCH



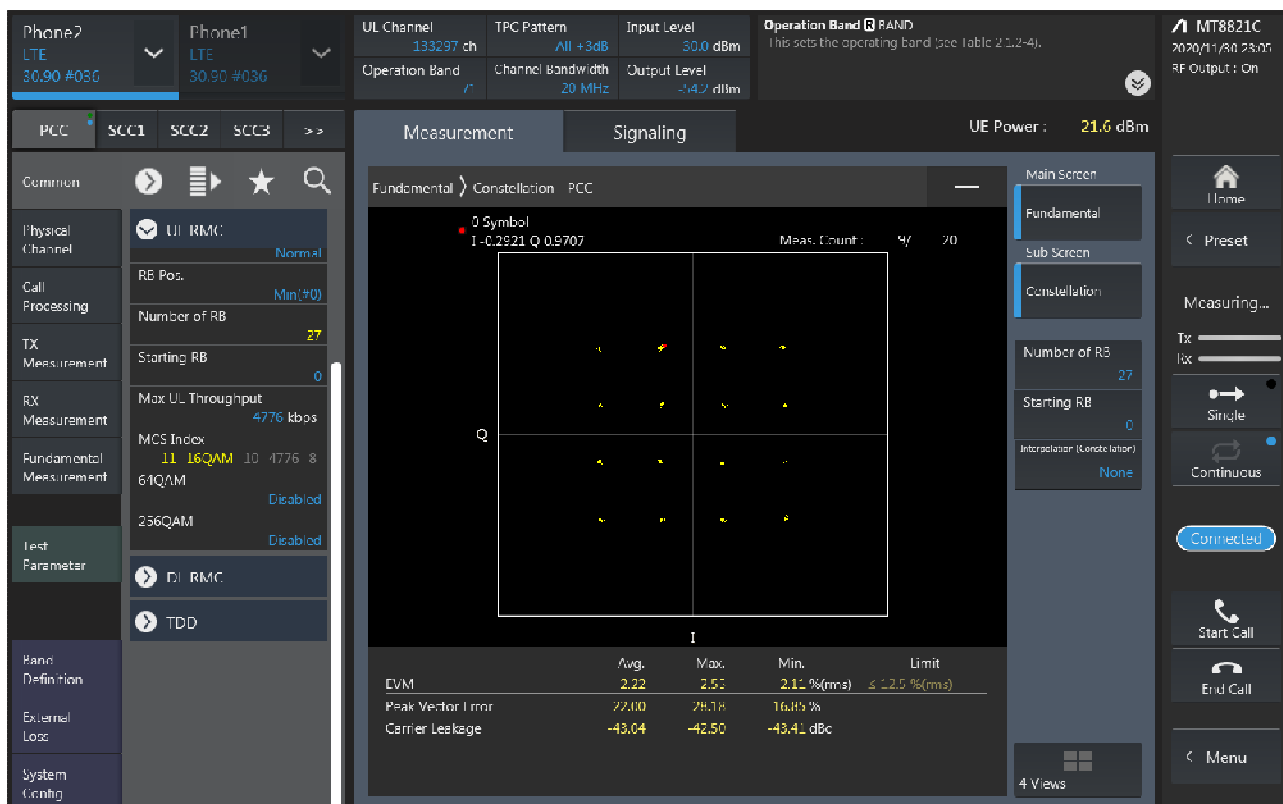
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3.2 Test Mode = LTE /TM2 20MHz

3.2.1 Test Channel = MCH



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4 26dB Bandwidth and Occupied Bandwidth

4.1 Test Result

Band	Bandwidth h	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.466	4.890	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.466	4.920	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.476	4.930	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.476	4.930	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.476	4.930	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.476	4.970	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.911	9.740	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.891	9.680	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.931	9.760	PASS
Band71	10MHz	16QAM	133172	27RB#0	4.875	5.740	PASS
Band71	10MHz	16QAM	133297	27RB#0	4.875	5.700	PASS
Band71	10MHz	16QAM	133422	27RB#0	4.855	5.760	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.487	14.850	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.367	14.640	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.487	14.850	PASS
Band71	15MHz	16QAM	133197	27RB#0	5.035	6.090	PASS
Band71	15MHz	16QAM	133297	27RB#0	5.035	6.090	PASS
Band71	15MHz	16QAM	133397	27RB#0	5.065	6.090	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.902	19.400	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.742	19.240	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.862	19.440	PASS
Band71	20MHz	16QAM	133222	27RB#0	5.035	6.320	PASS
Band71	20MHz	16QAM	133322	27RB#0	5.115	6.280	PASS
Band71	20MHz	16QAM	133372	27RB#0	5.115	6.280	PASS

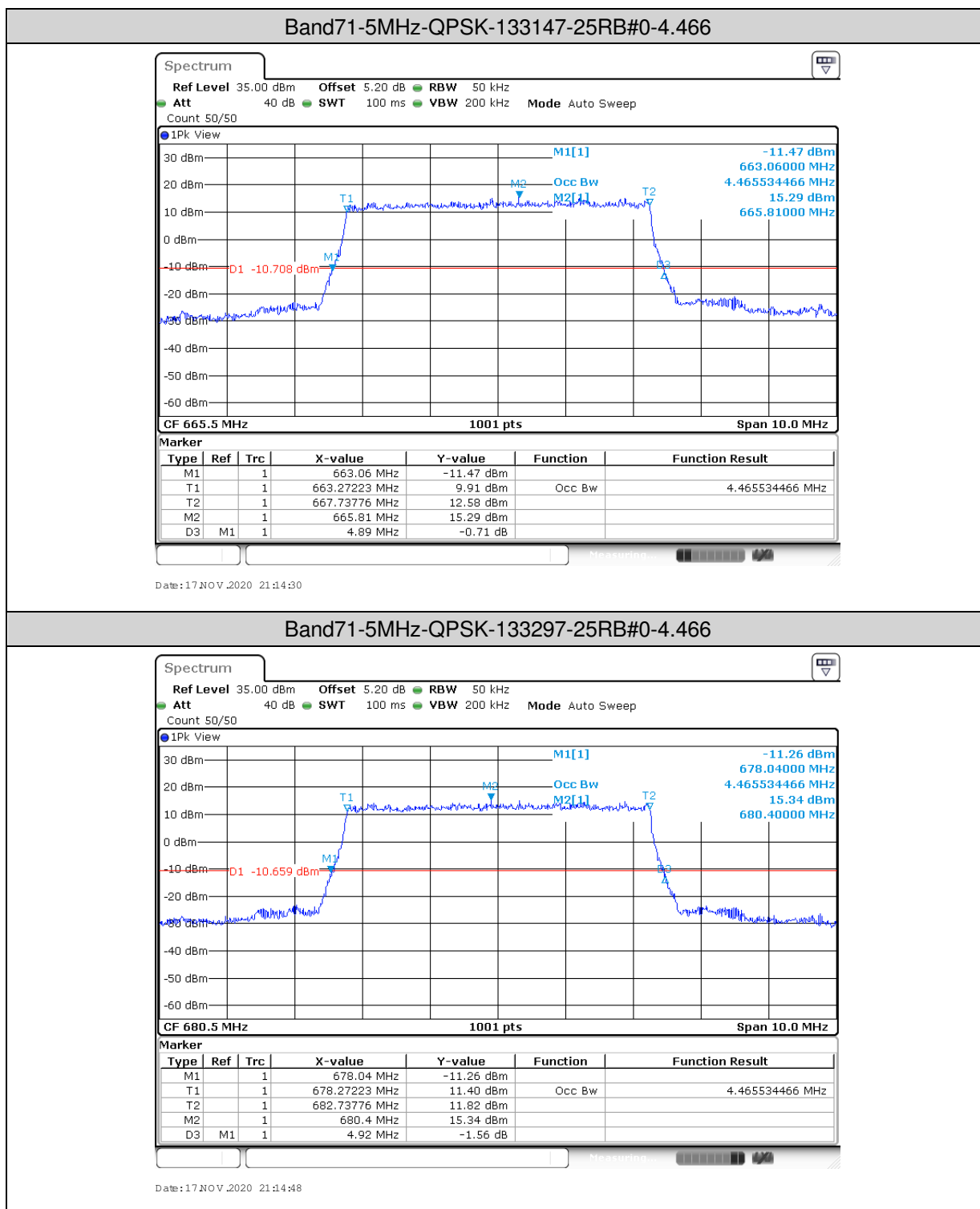


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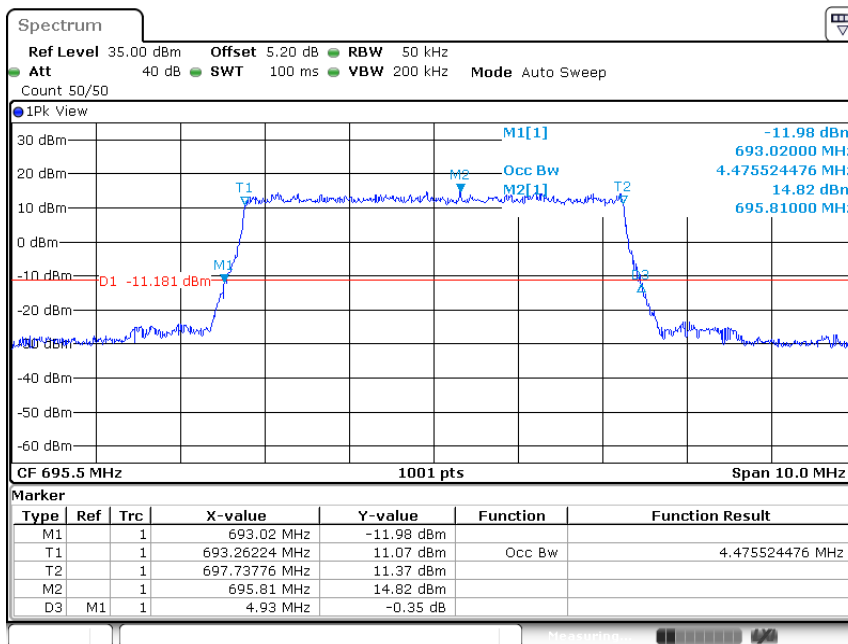
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4.2 Test Plots

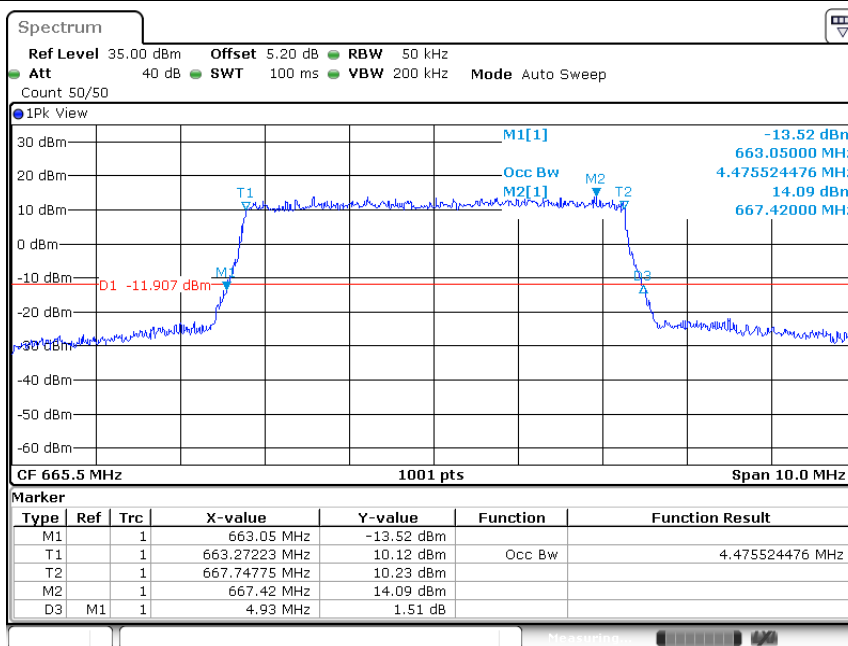


Band71-5MHz-QPSK-133447-25RB#0-4.476



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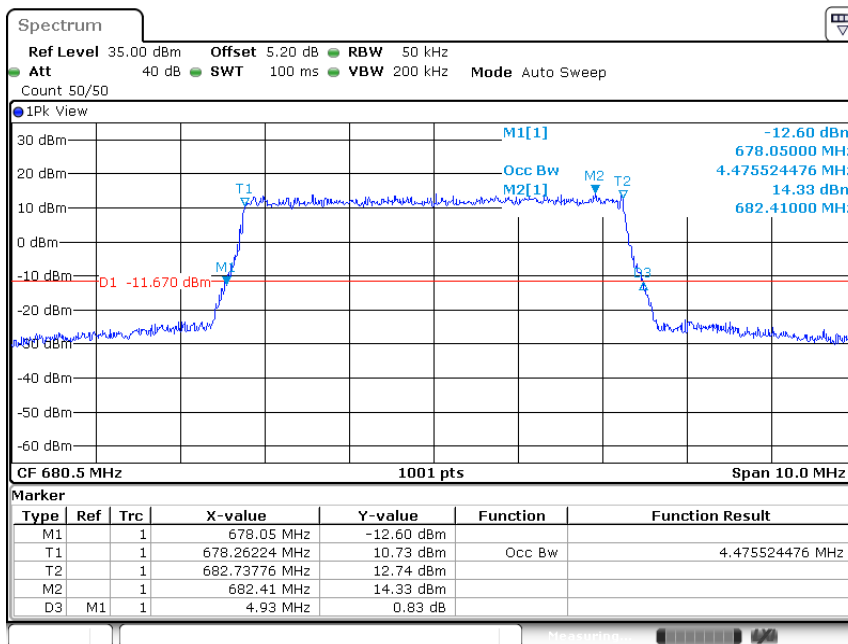
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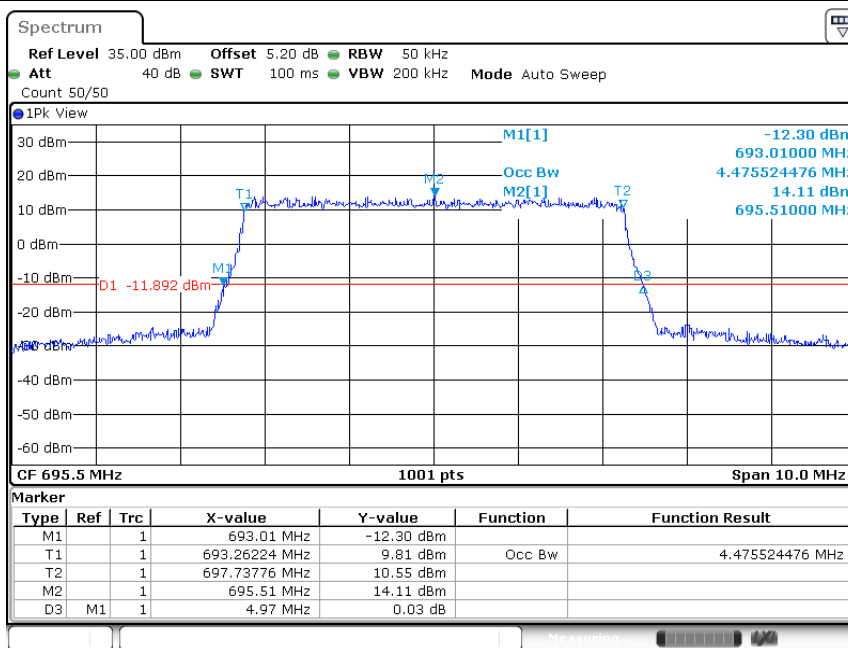
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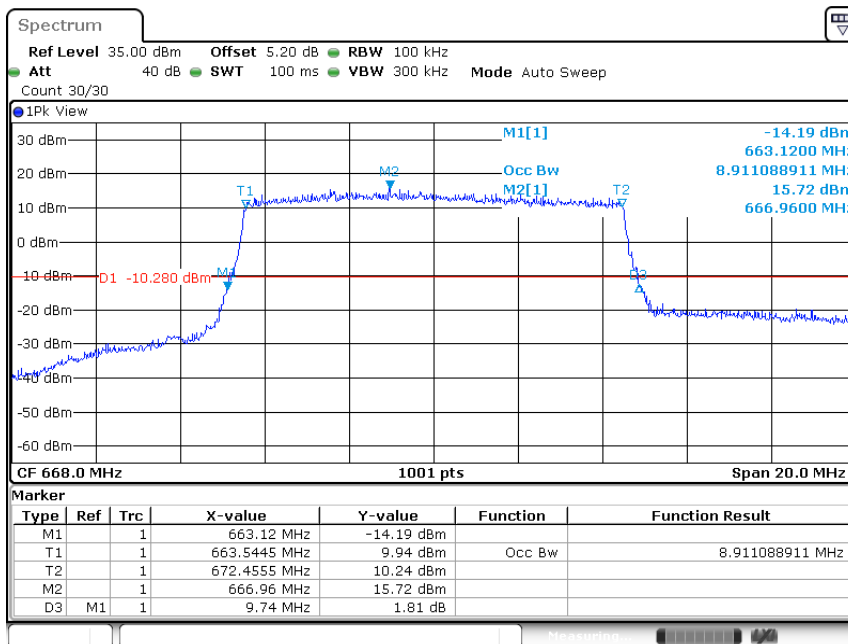
Band71-5MHz-16QAM-133297-25RB#0-4.476



Band71-5MHz-16QAM-133447-25RB#0-4.476

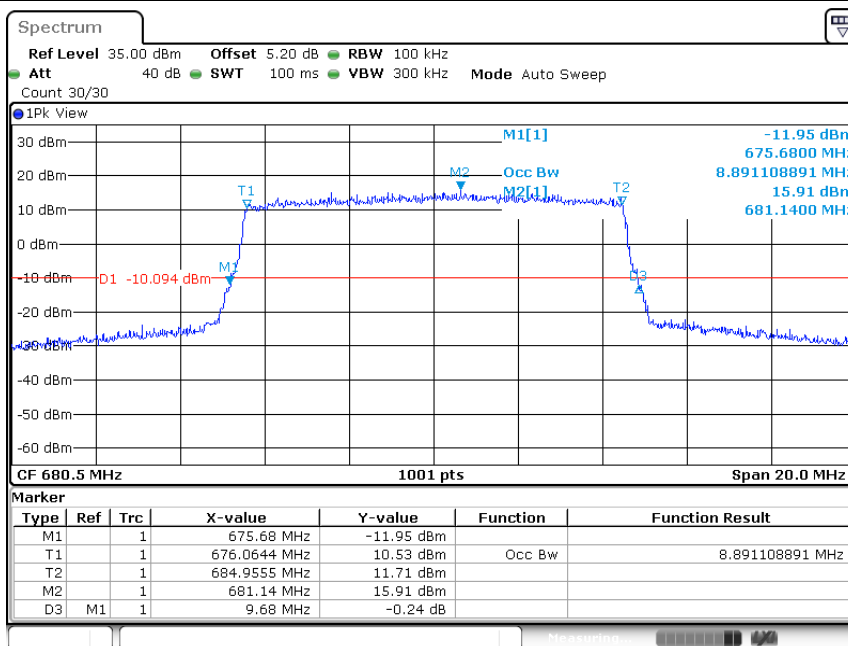


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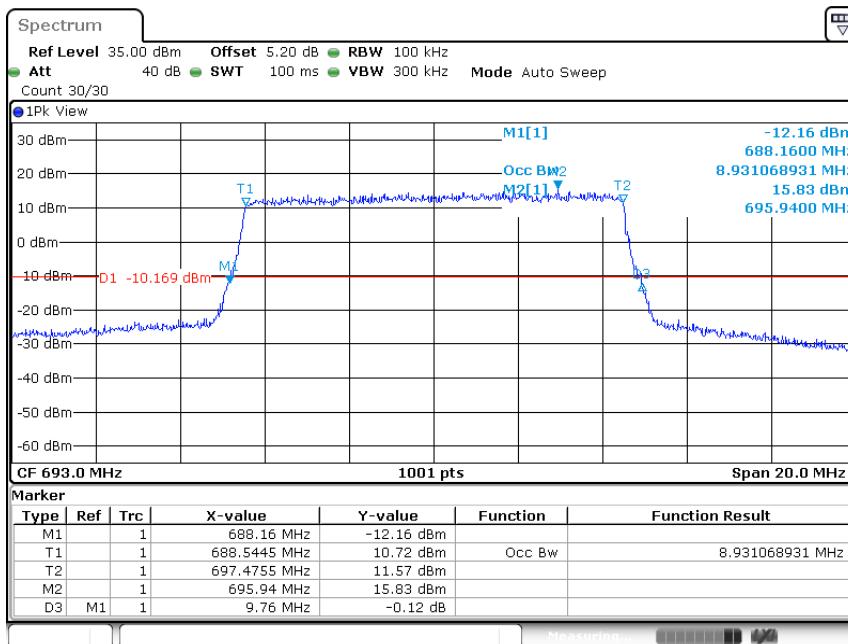
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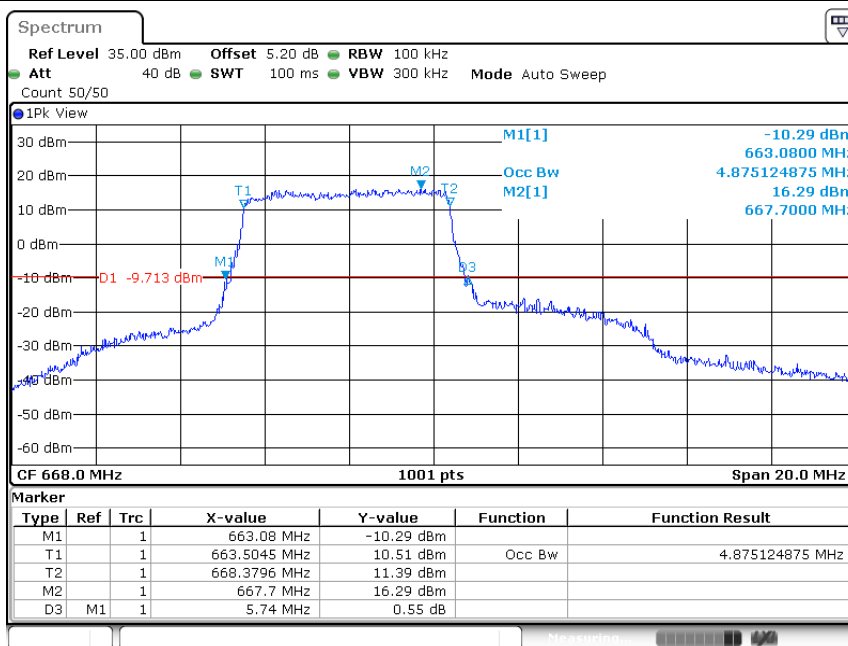


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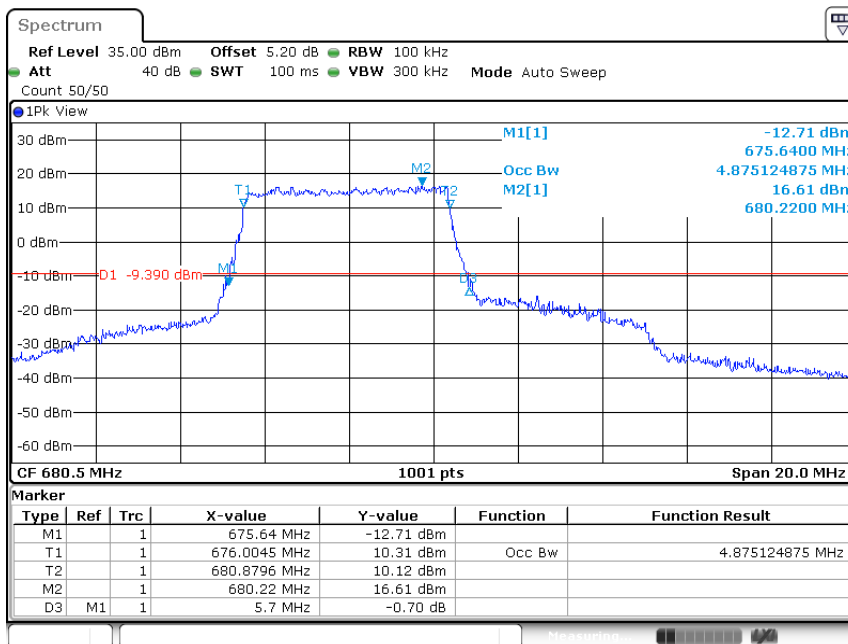
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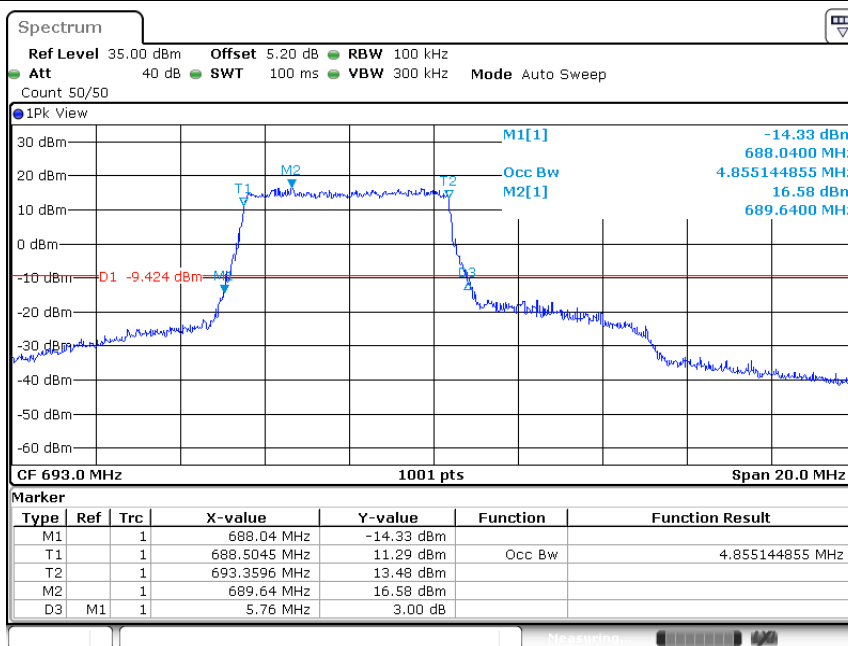


Band71-10MHz-16QAM-133297-27RB#0-4.875



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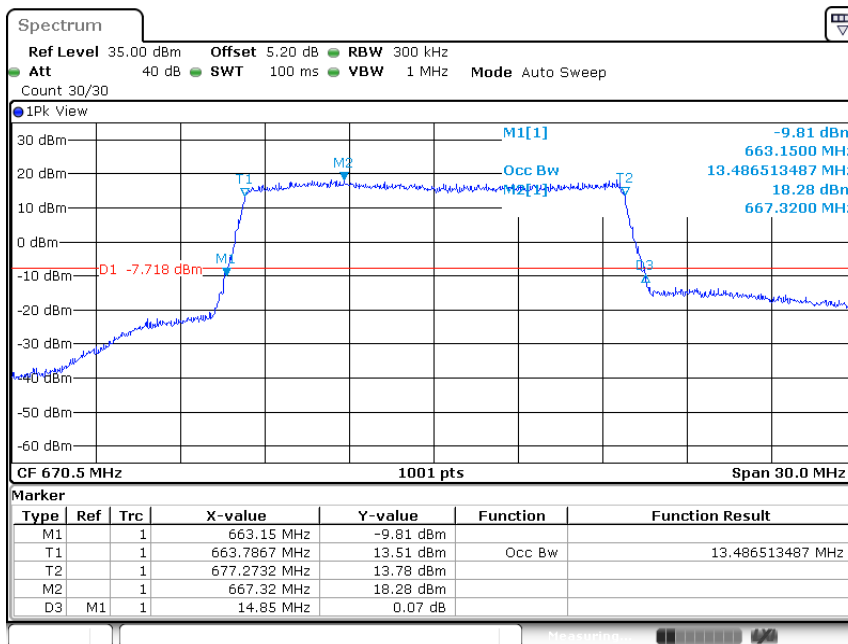
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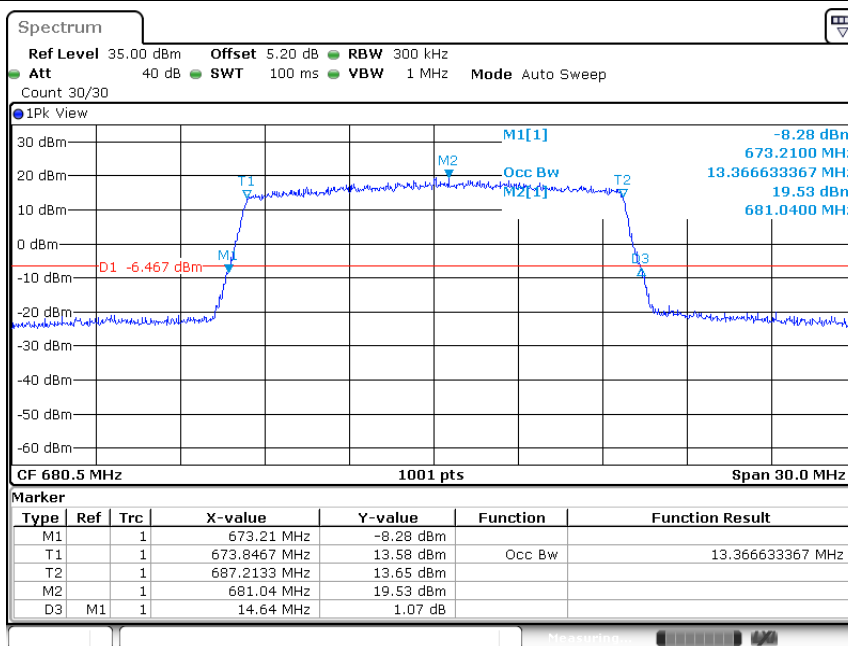


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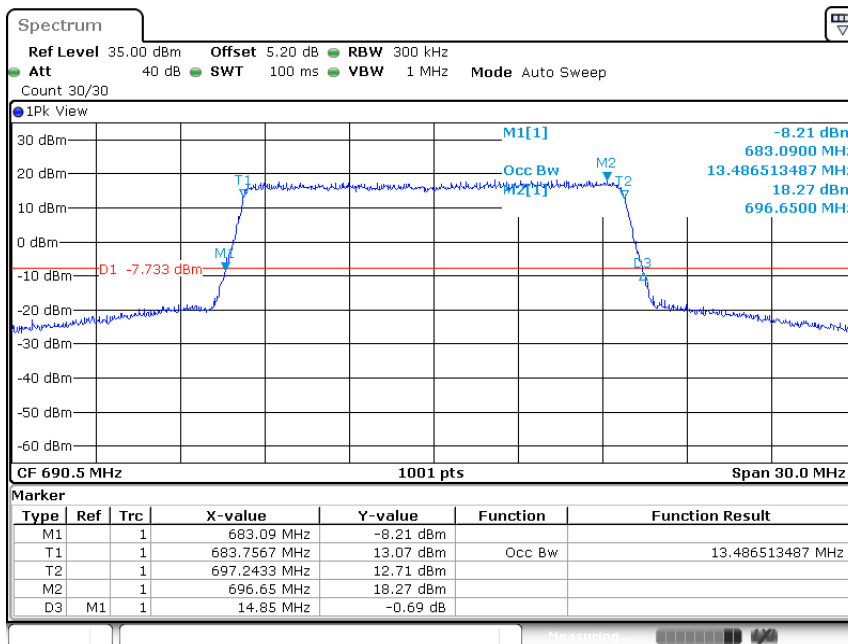
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Date: 23 NOV 2020 21:11:30

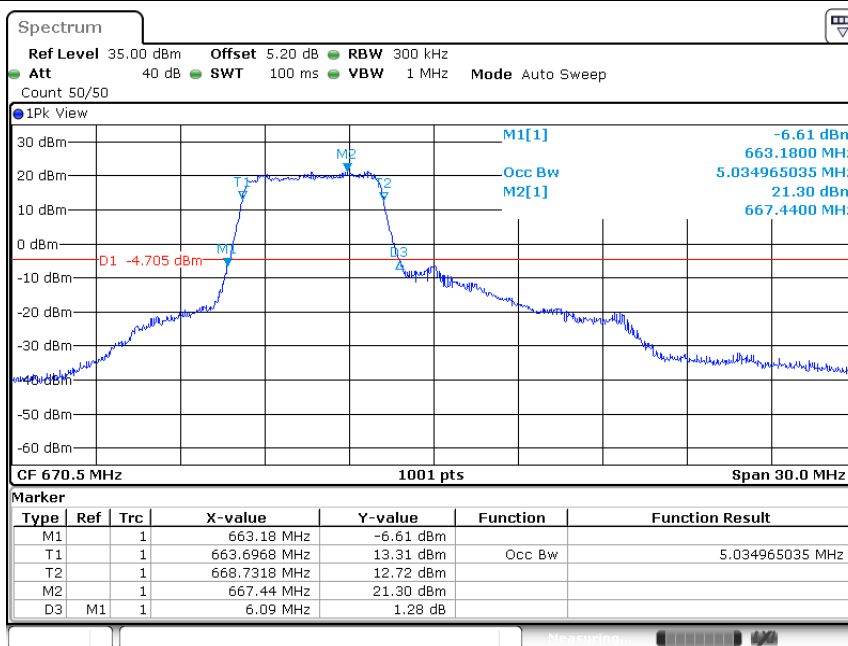


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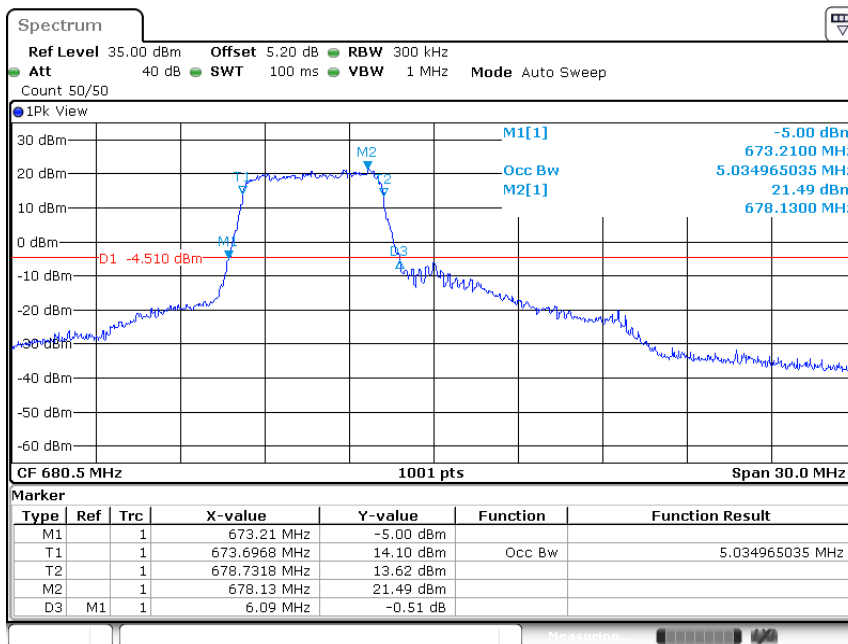
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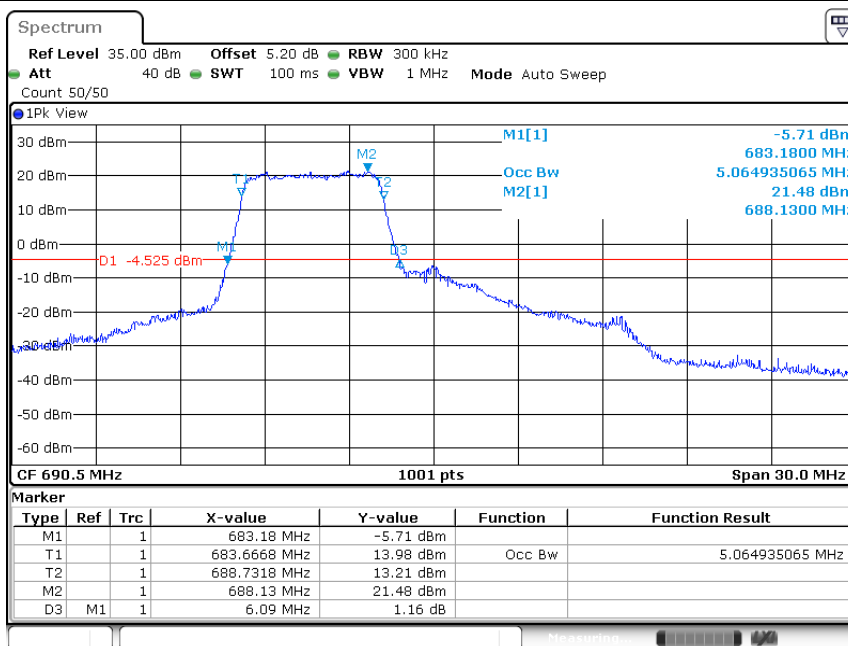


Band71-15MHz-16QAM-133297-27RB#0-5.035



Date: 18 NOV 2020 12:33:11

Band71-15MHz-16QAM-133397-27RB#0-5.065



Date: 18 NOV 2020 12:33:30



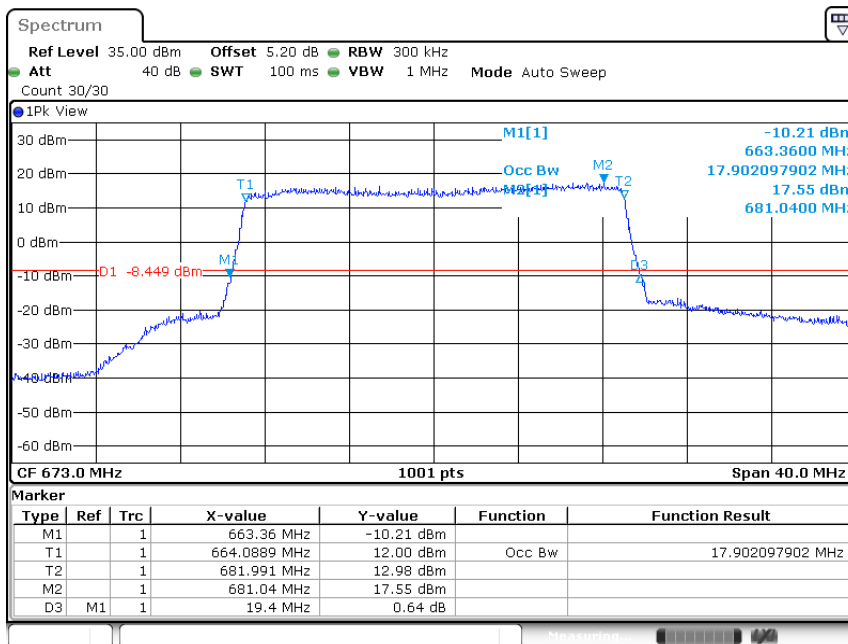
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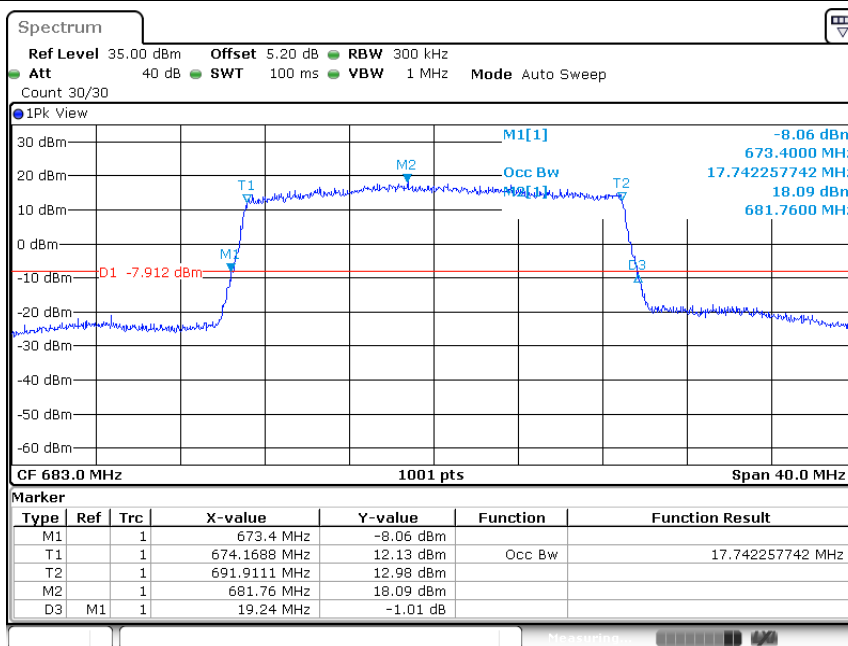
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Band71-20MHz-QPSK-133222-100RB#0-17.902



Date: 23 NOV 2020 21:12:36

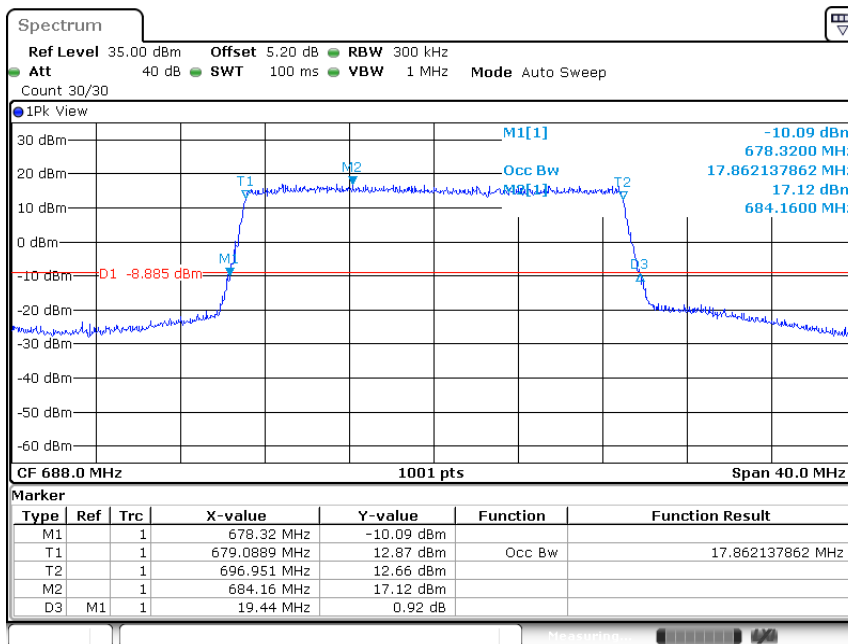
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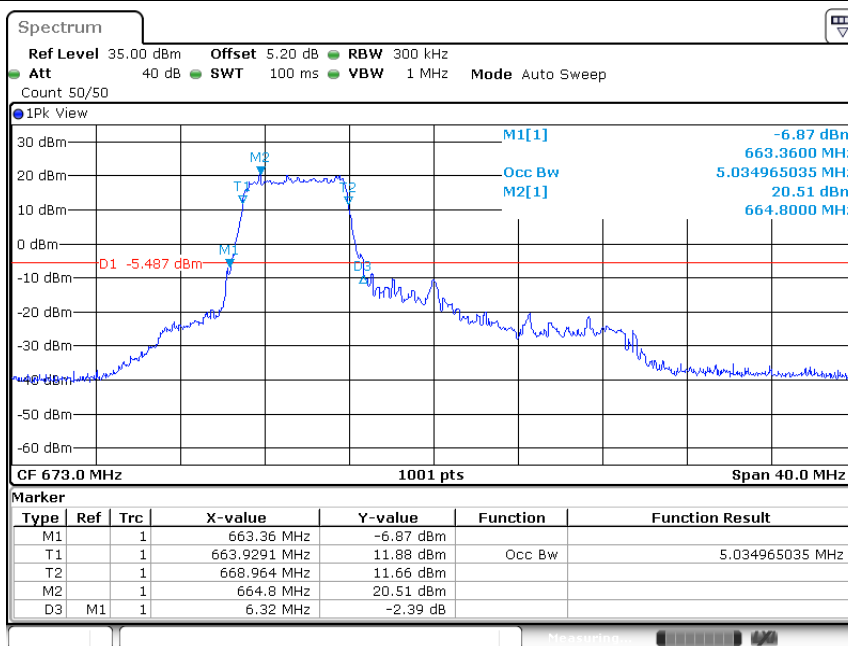


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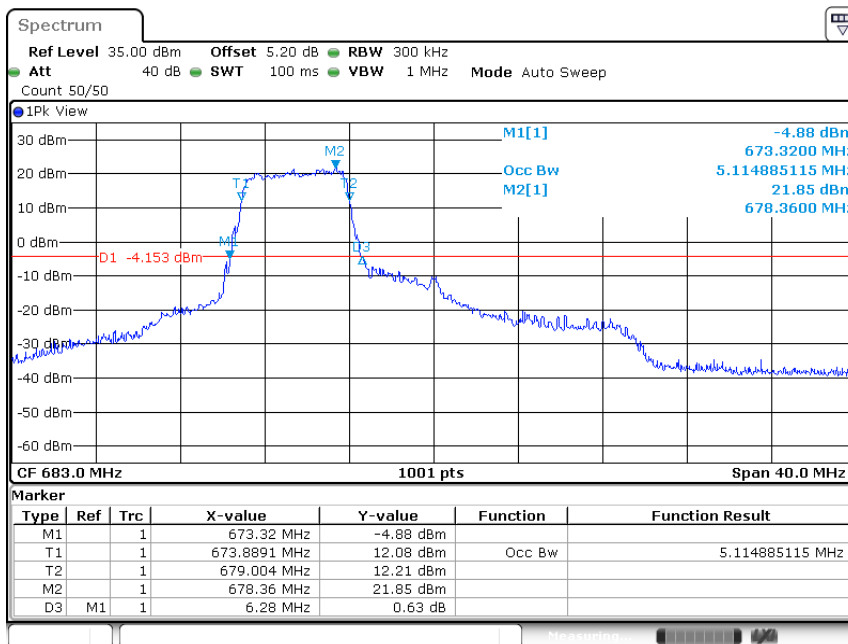
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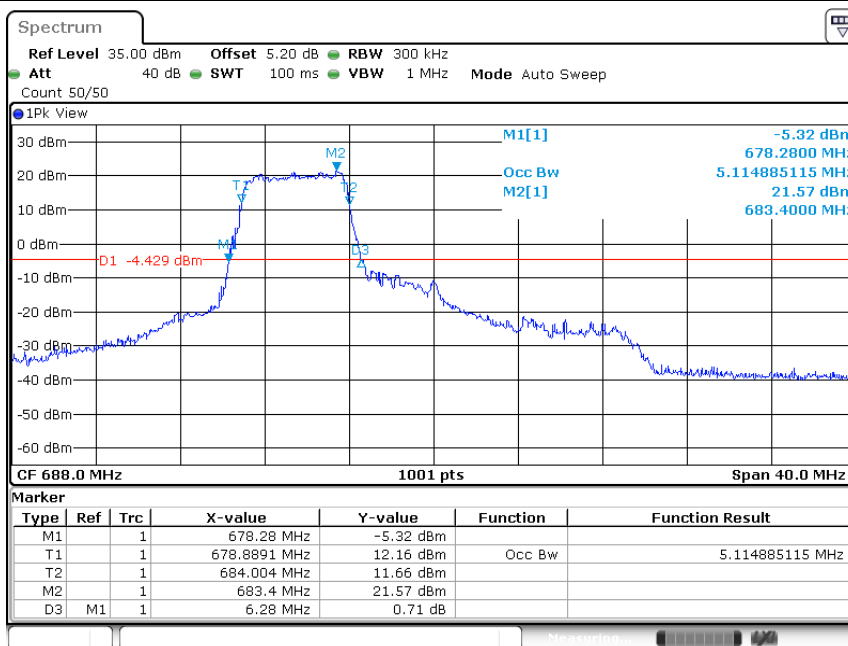


Band71-20MHz-16QAM-133322-27RB#0-5.115



Date: 18 NOV. 2020 12:34:12

Band71-20MHz-16QAM-133372-27RB#0-5.115

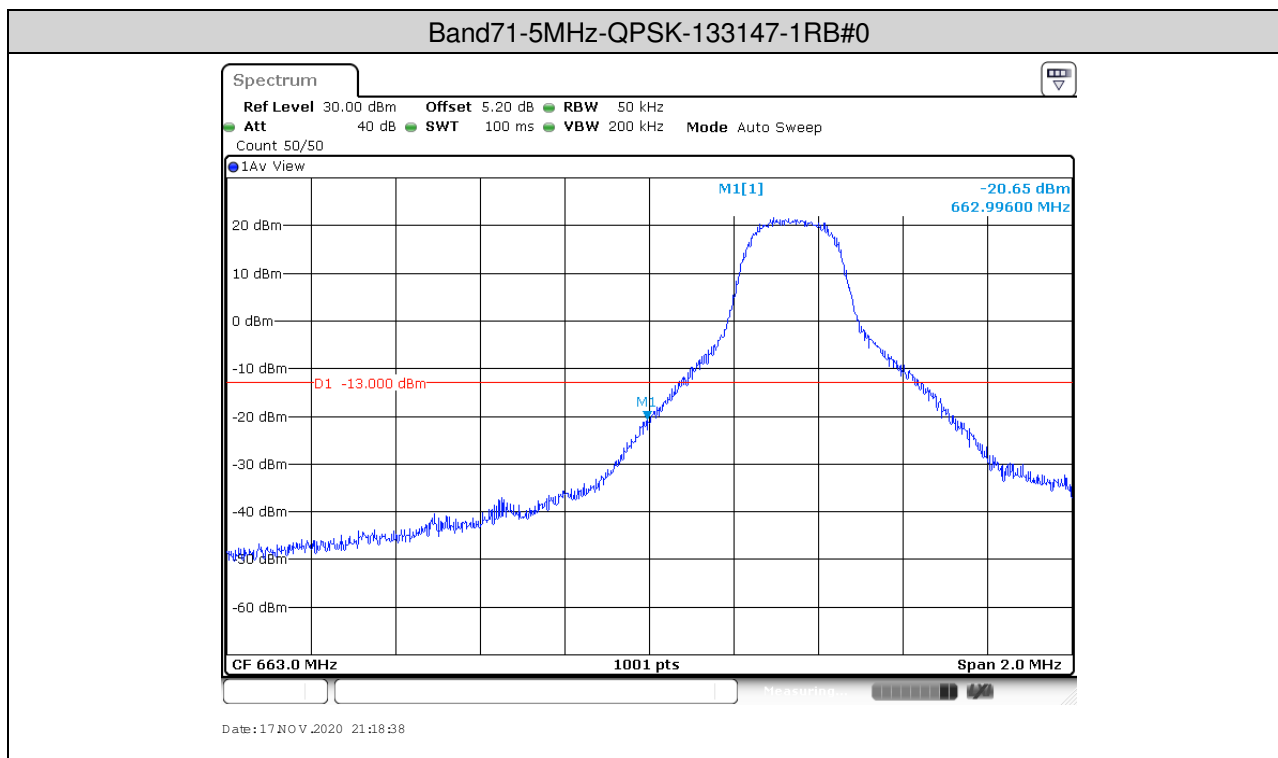


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5 Band Edge Compliance

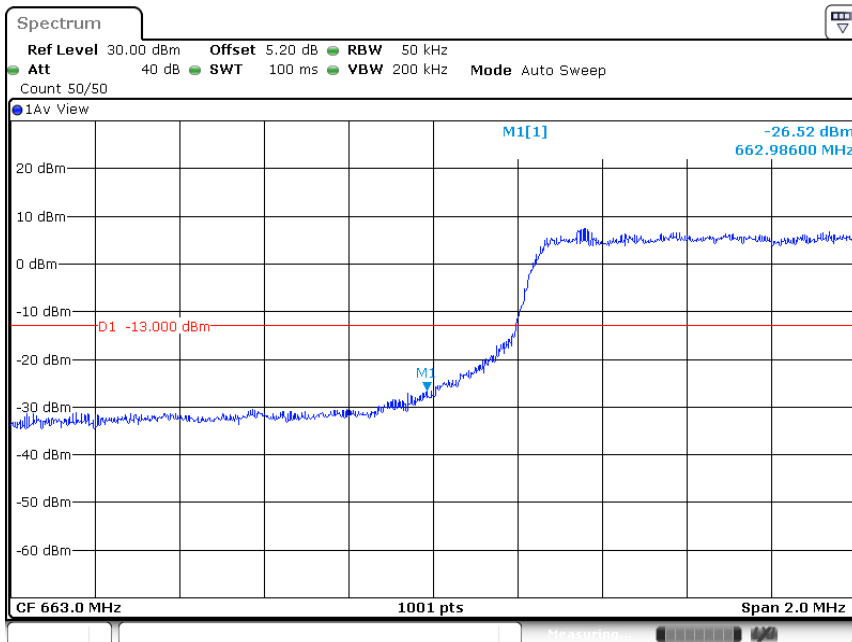
5.1 Test Plots



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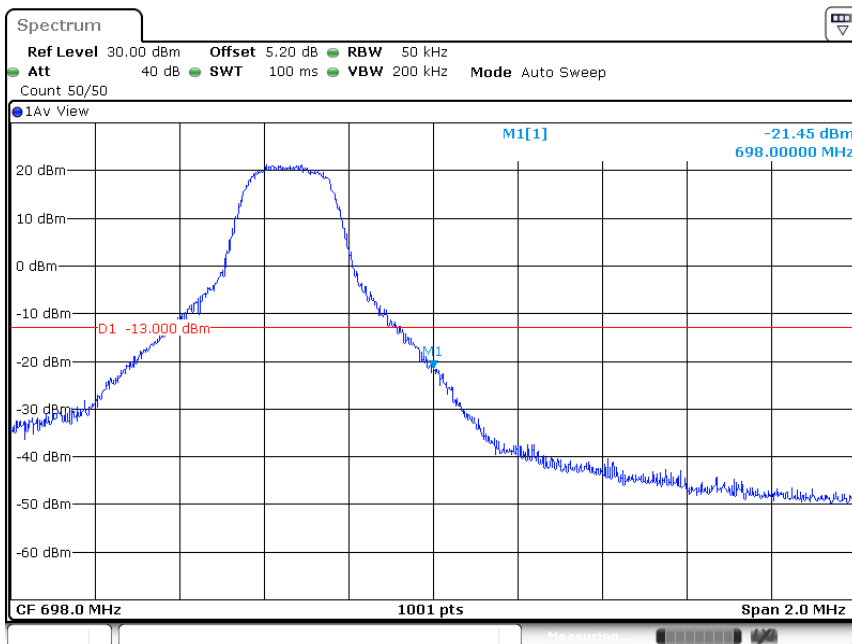
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Band71-5MHz-QPSK-133147-25RB#0



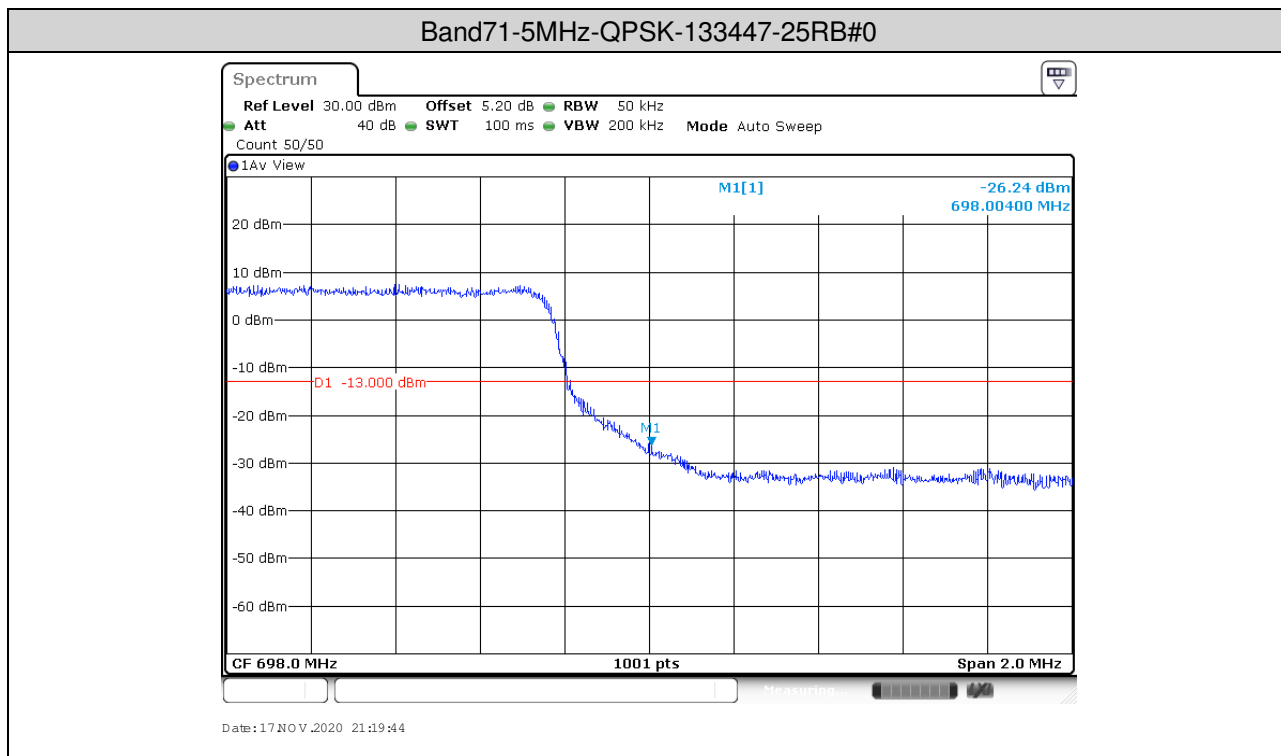
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Band71-5MHz-QPSK-133447-1RB#24



Date: 17 NOV 2020 21:19:25

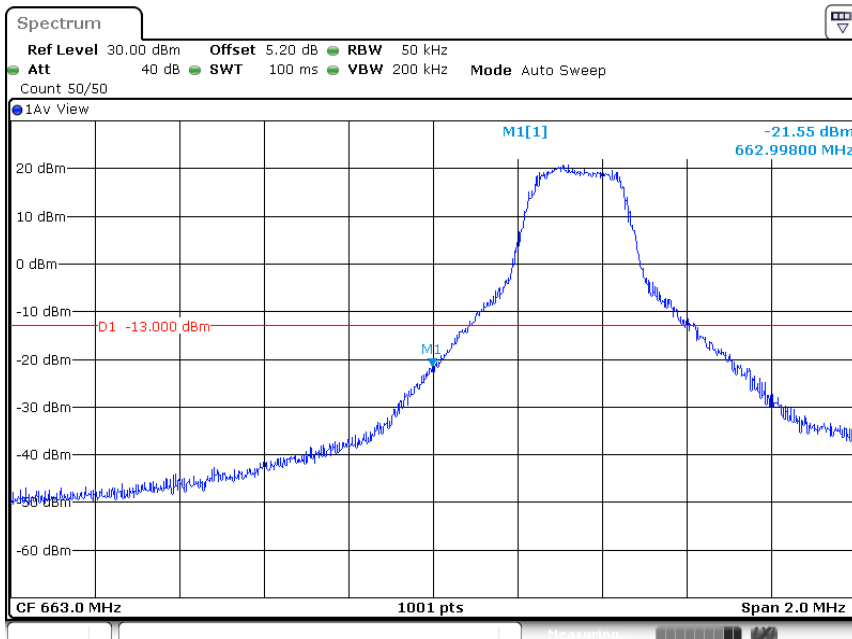




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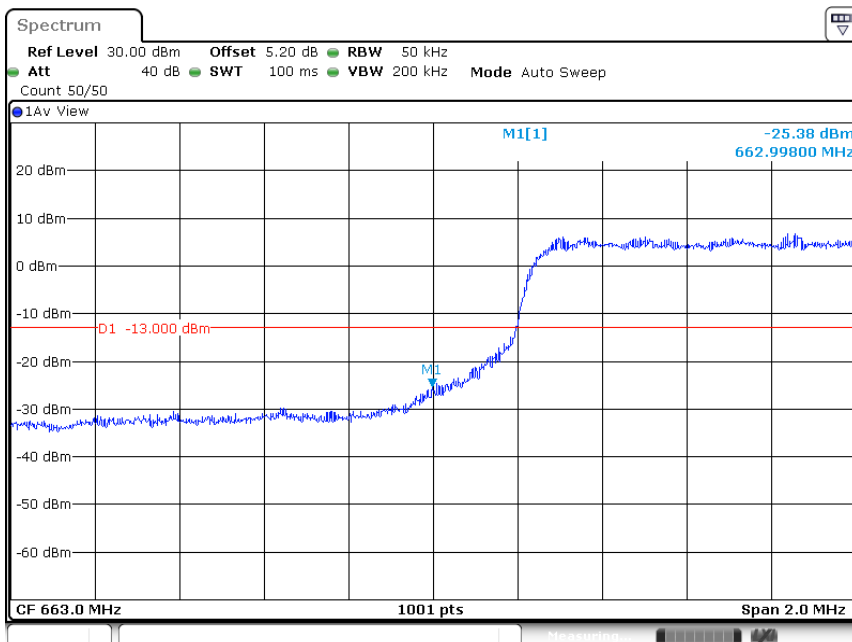
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Band71-5MHz-16QAM-133147-1RB#0



Date: 18 NOV 2020 13:54:11

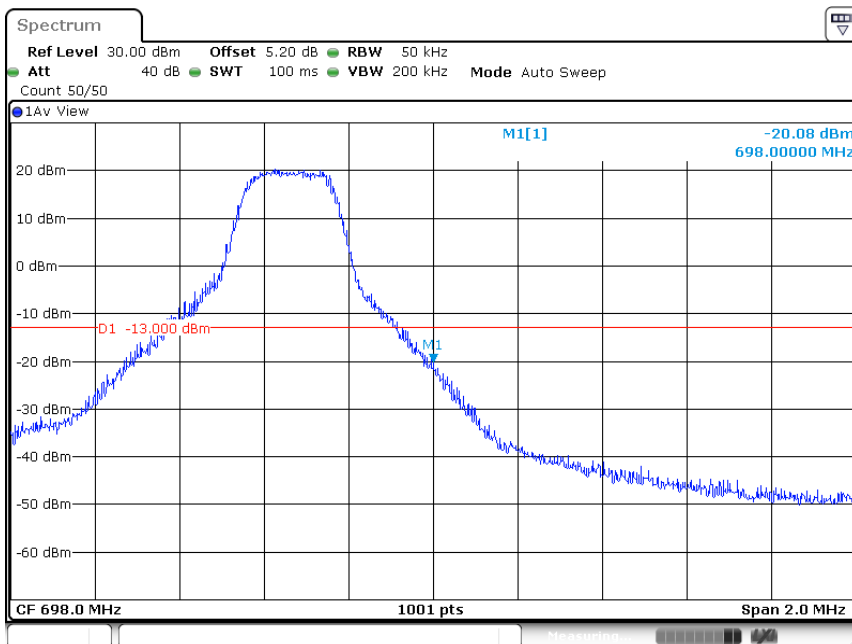
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Date: 18 NOV 2020 13:54:31

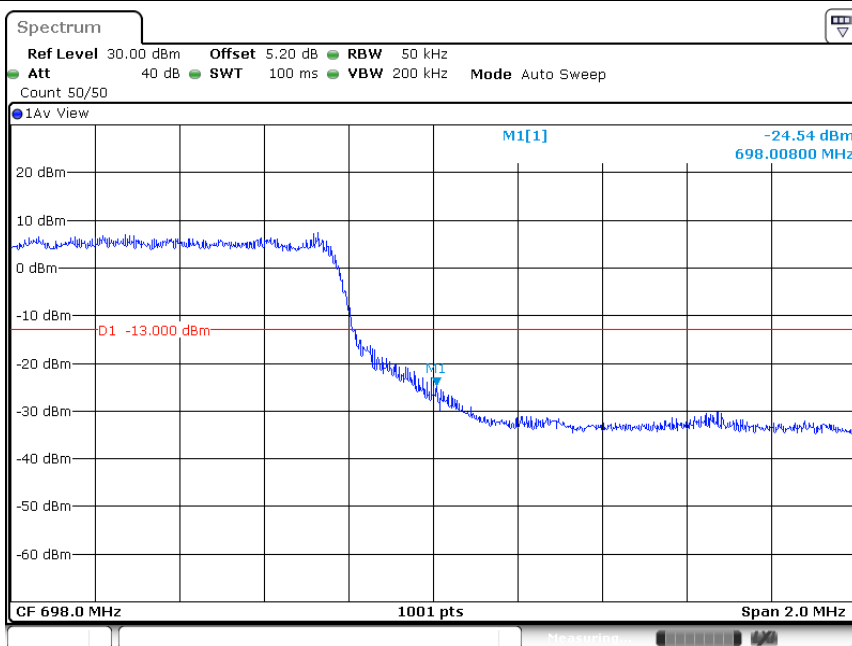


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Date: 18 NOV 2020 13:54:58

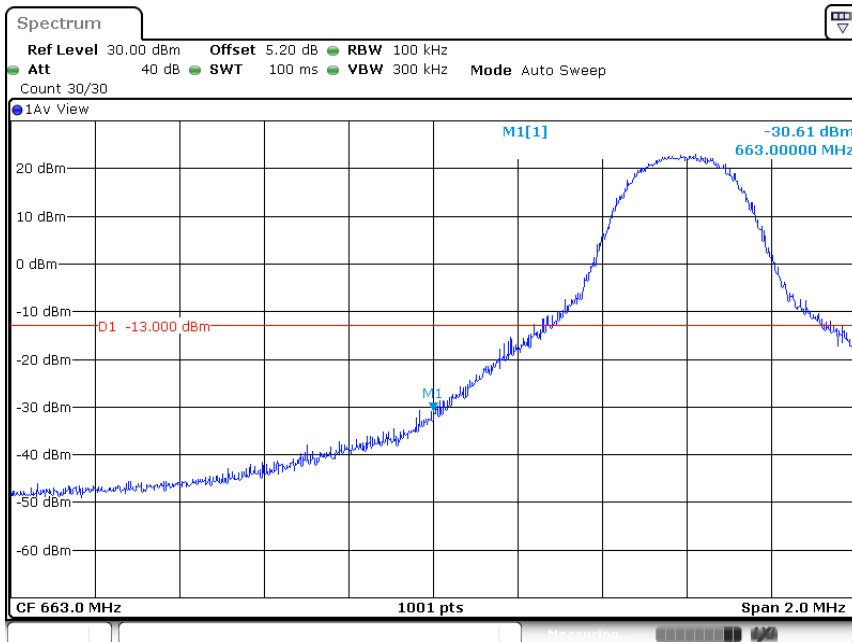
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Date: 18 NOV 2020 13:55:18

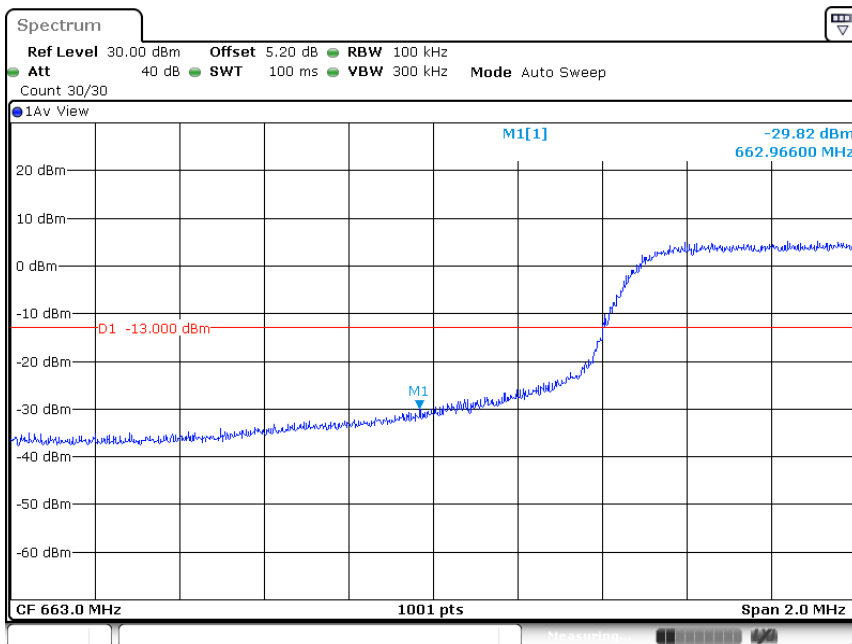


Band71-10MHz-QPSK-133172-1RB#0



Date: 23 NOV 2020 21:13:22

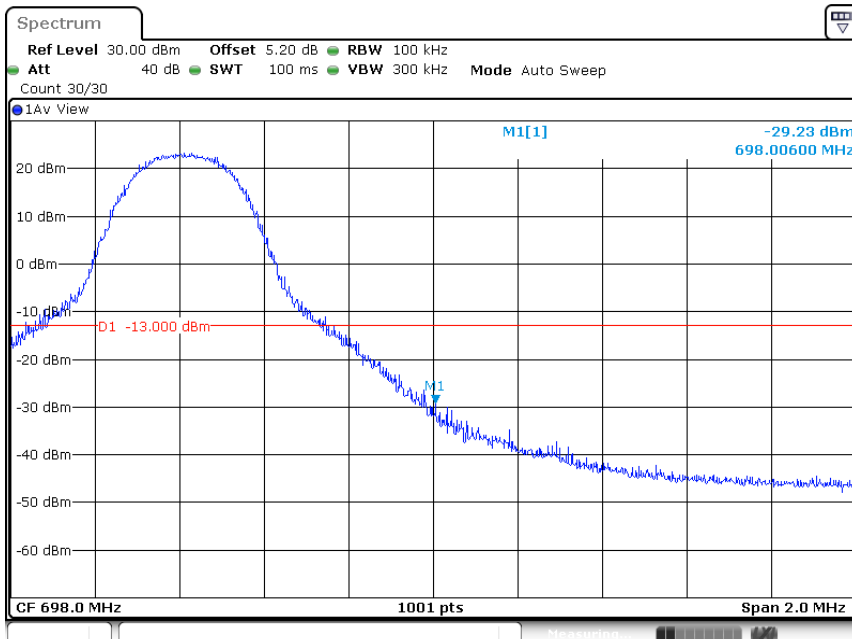
Band71-10MHz-QPSK-133172-50RB#0



Date: 23 NOV 2020 21:13:35

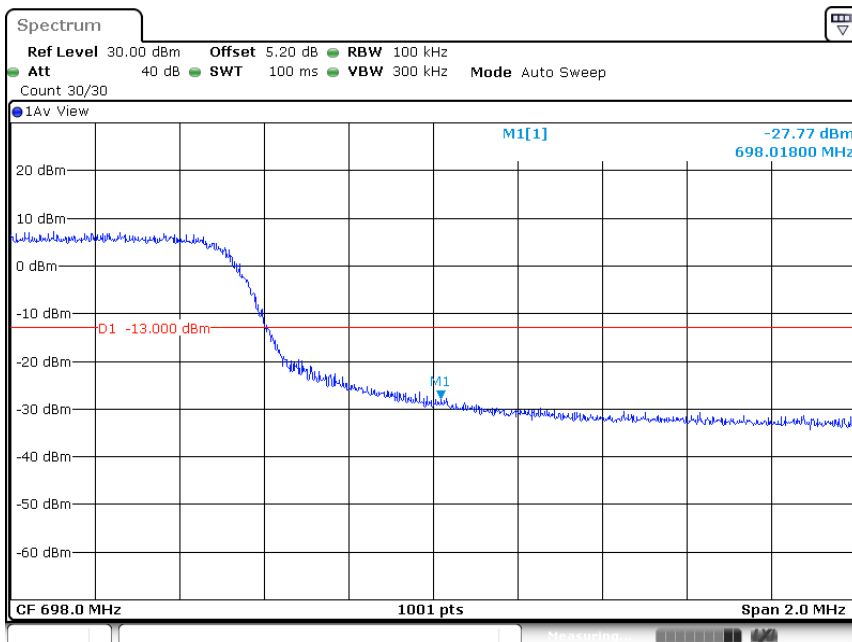


Band71-10MHz-QPSK-133422-1RB#49



Date: 23 NOV 2020 21:13:52

Band71-10MHz-QPSK-133422-50RB#0



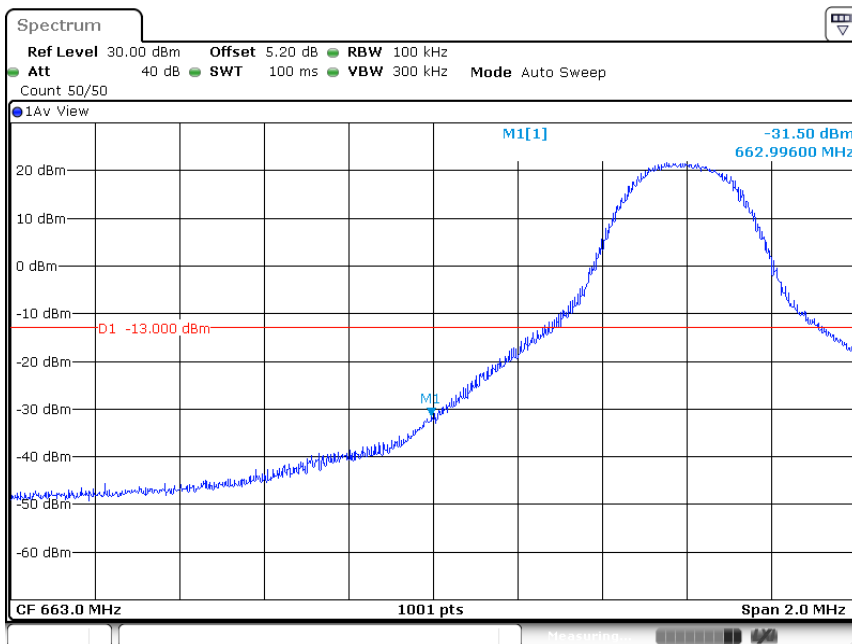
Date: 23 NOV 2020 21:14:05



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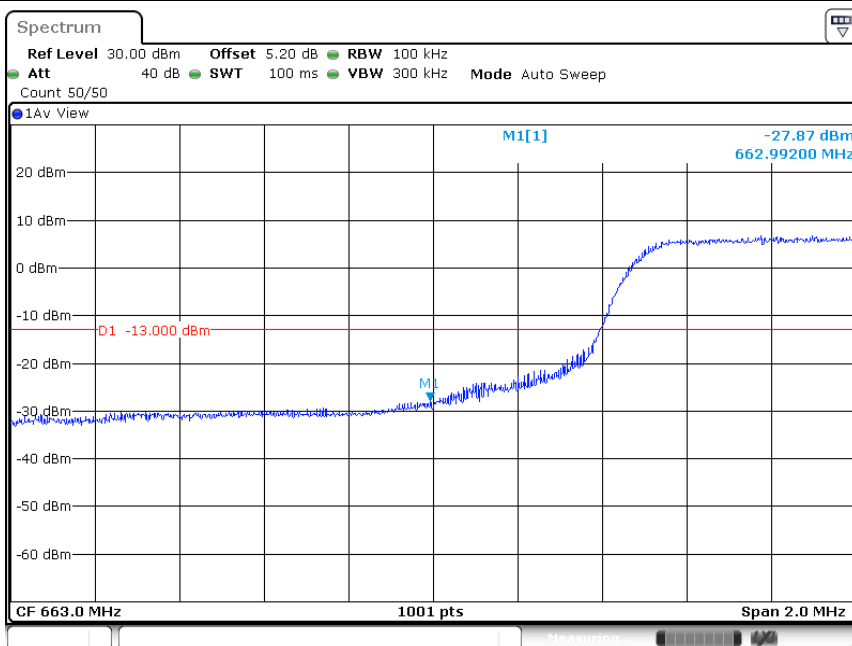
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Band71-10MHz-16QAM-133172-1RB#0



Date: 18 NOV 2020 13:55:45

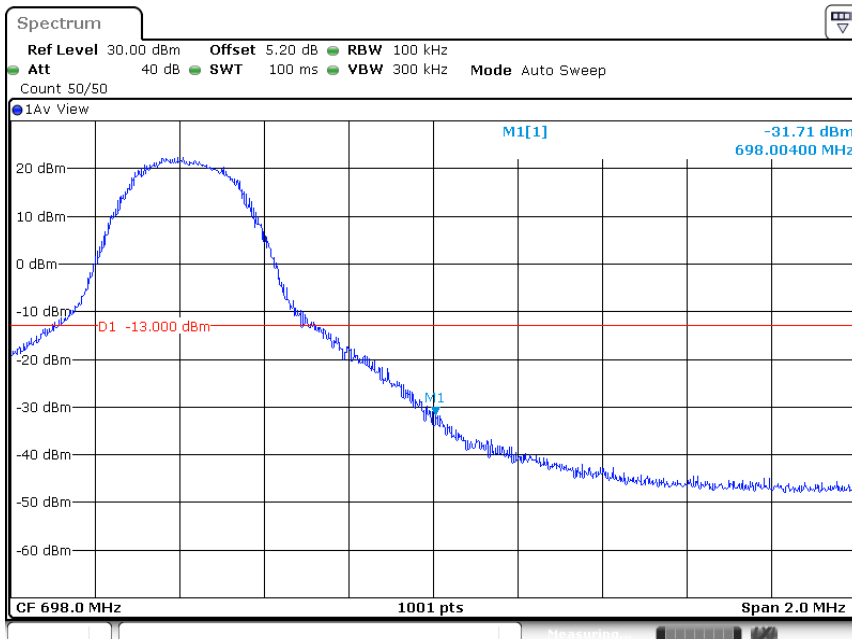
Band71-10MHz-16QAM-133172-27RB#0



Date: 18 NOV 2020 13:56:05

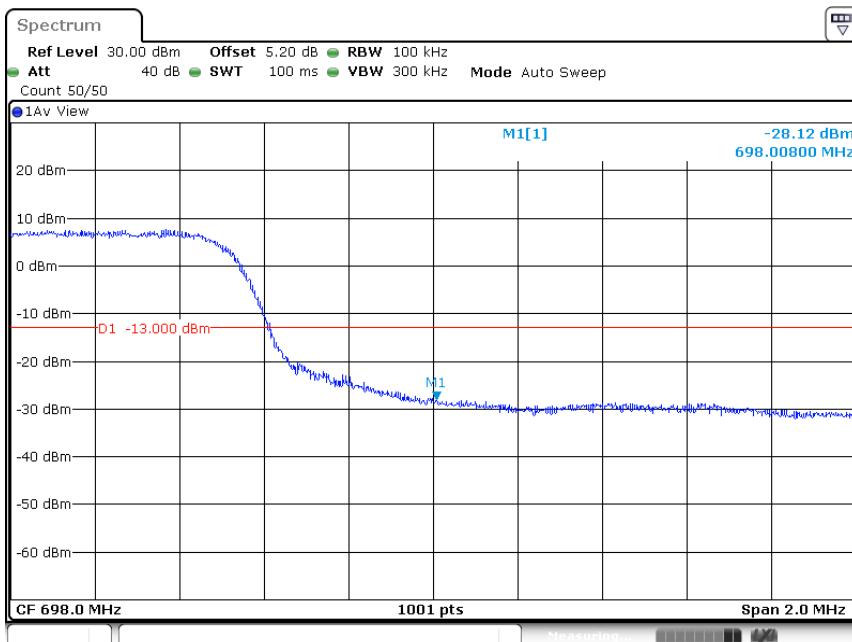


Band71-10MHz-16QAM-133422-1RB#49



Date: 18 NOV 2020 13:56:32

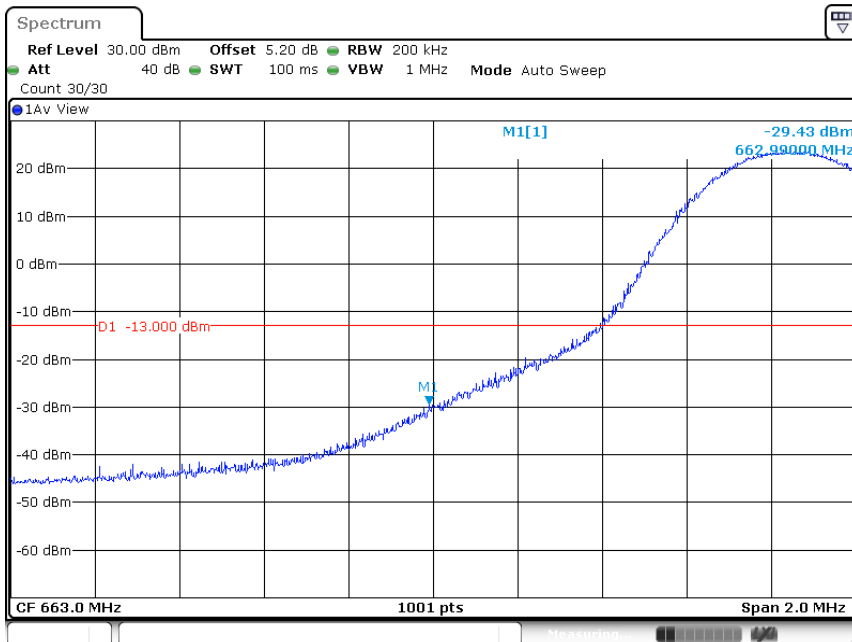
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Date: 18 NOV 2020 13:56:52

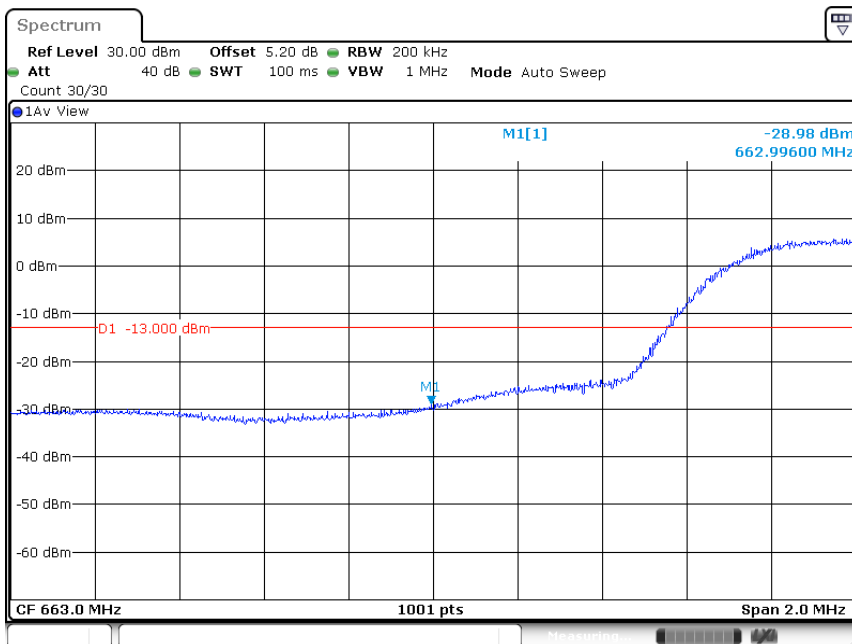


Band71-15MHz-QPSK-133197-1RB#0



Date: 23 NOV 2020 21:14:43

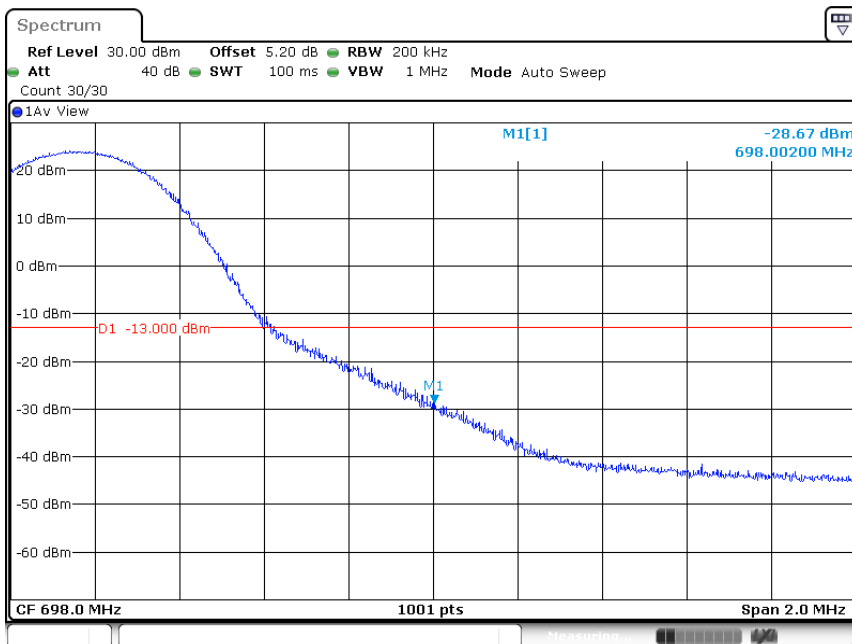
Band71-15MHz-QPSK-133197-75RB#0



Date: 23 NOV 2020 21:14:57



Band71-15MHz-QPSK-133397-1RB#74



Date: 23 NOV 2020 21:15:14

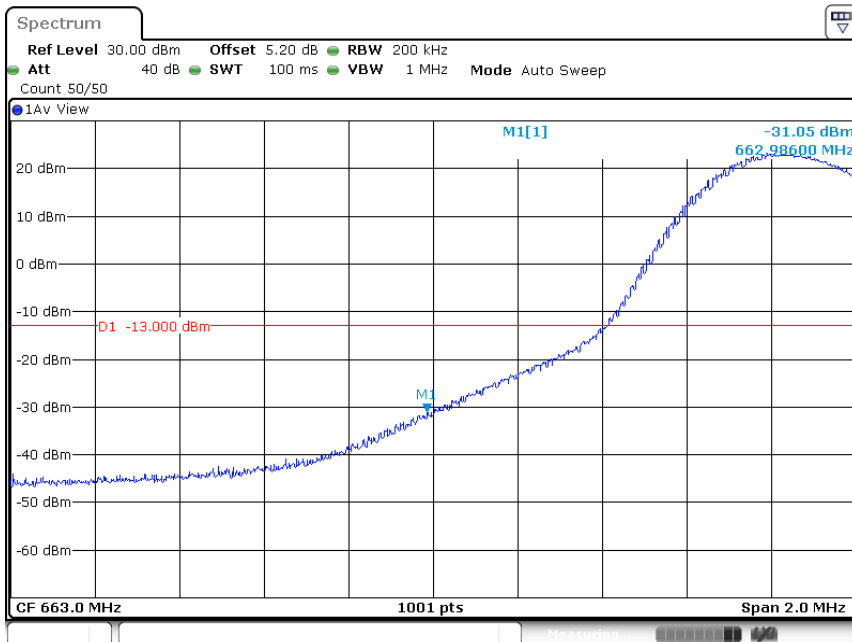
Band71-15MHz-QPSK-133397-75RB#0



Date: 23 NOV 2020 21:15:28

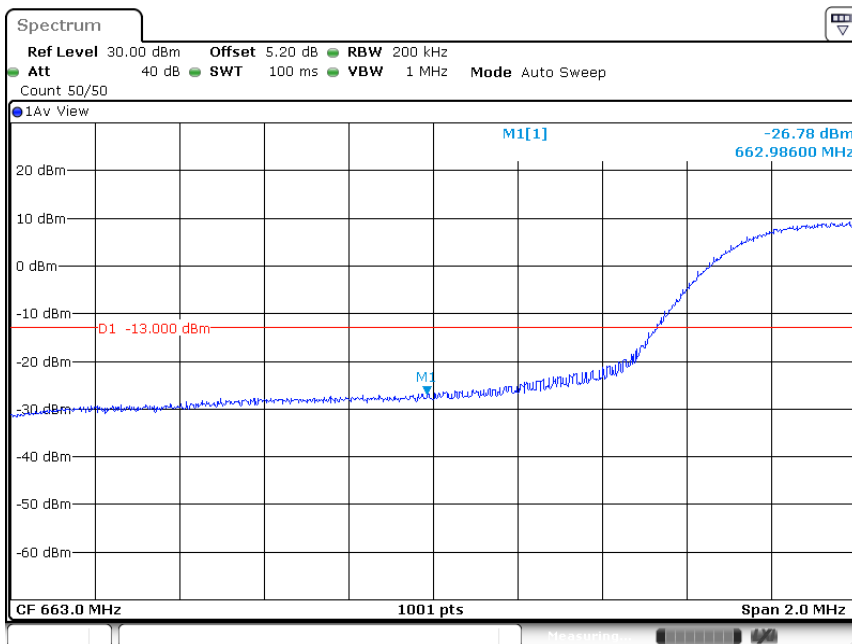


Band71-15MHz-16QAM-133197-1RB#0



Date: 18 NOV 2020 13:57:20

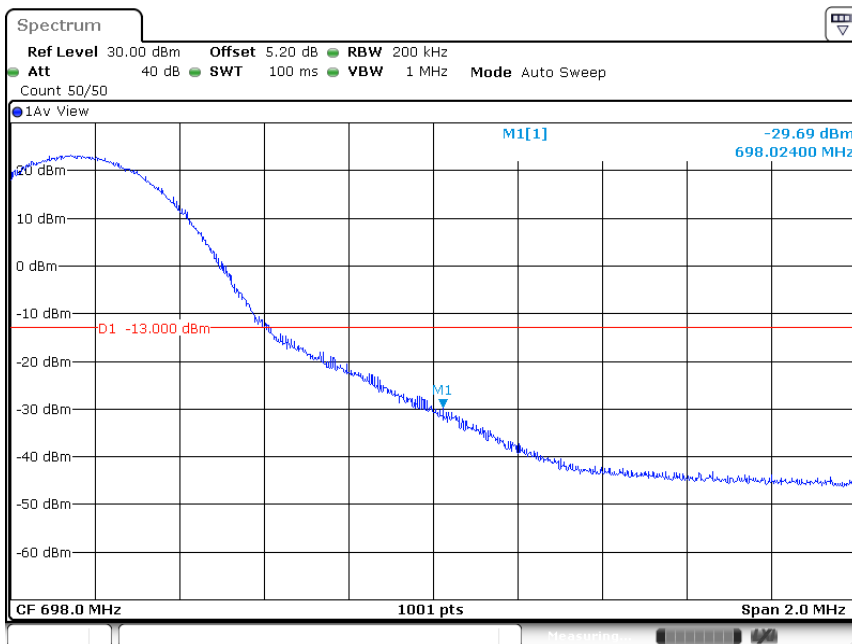
Band71-15MHz-16QAM-133197-27RB#0



Date: 18 NOV 2020 13:57:39

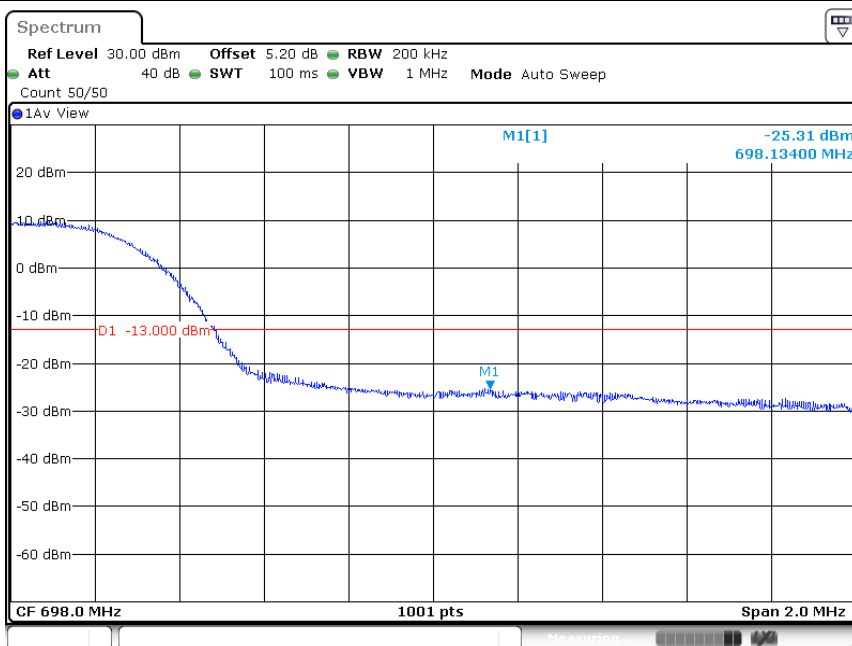


Band71-15MHz-16QAM-133397-1RB#74



Date: 18 NOV 2020 13:58:07

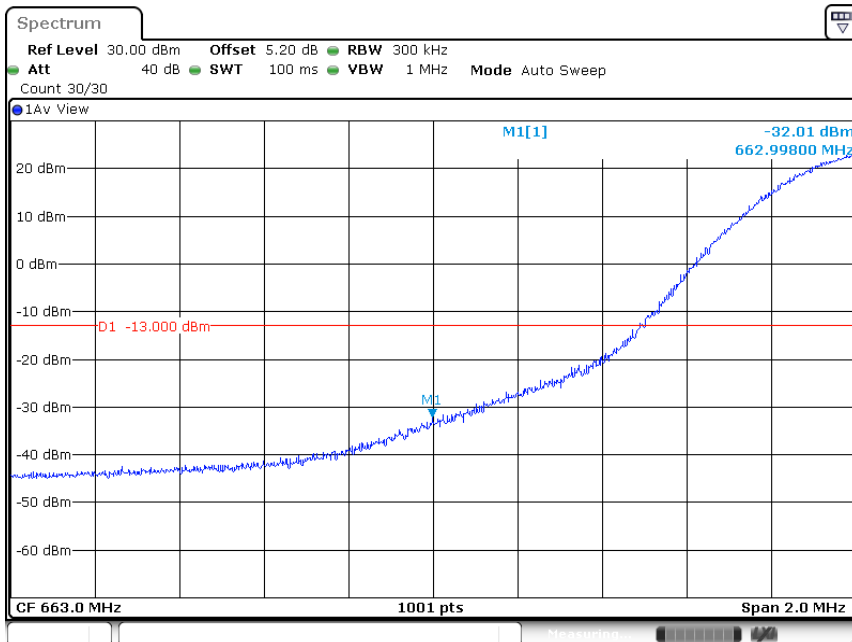
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Date: 18 NOV 2020 13:58:27

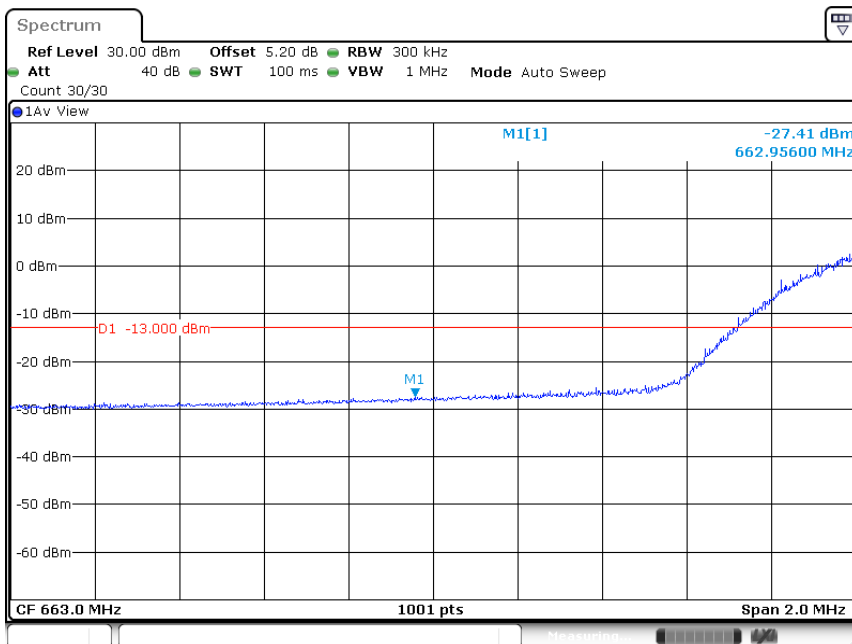


Band71-20MHz-QPSK-133222-1RB#0



Date: 23 NOV 2020 21:16:06

Band71-20MHz-QPSK-133222-100RB#0



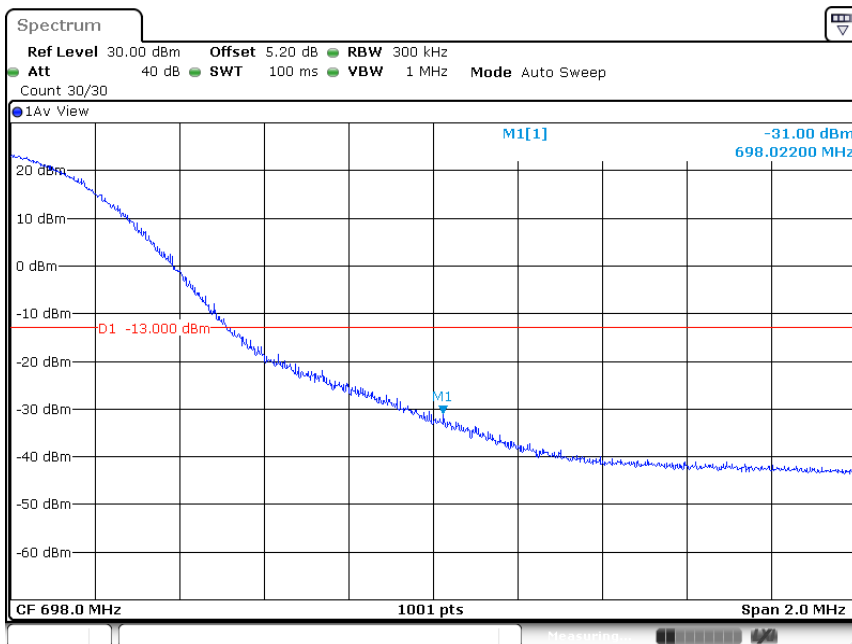
Date: 23 NOV 2020 21:16:19



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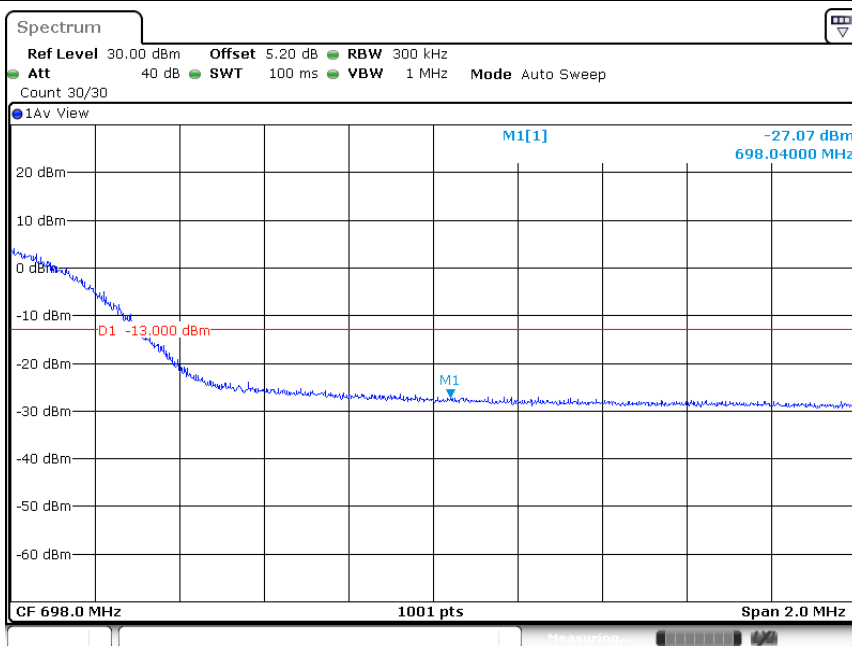
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Band71-20MHz-QPSK-133372-1RB#99



Date: 23 NOV 2020 21:16:37

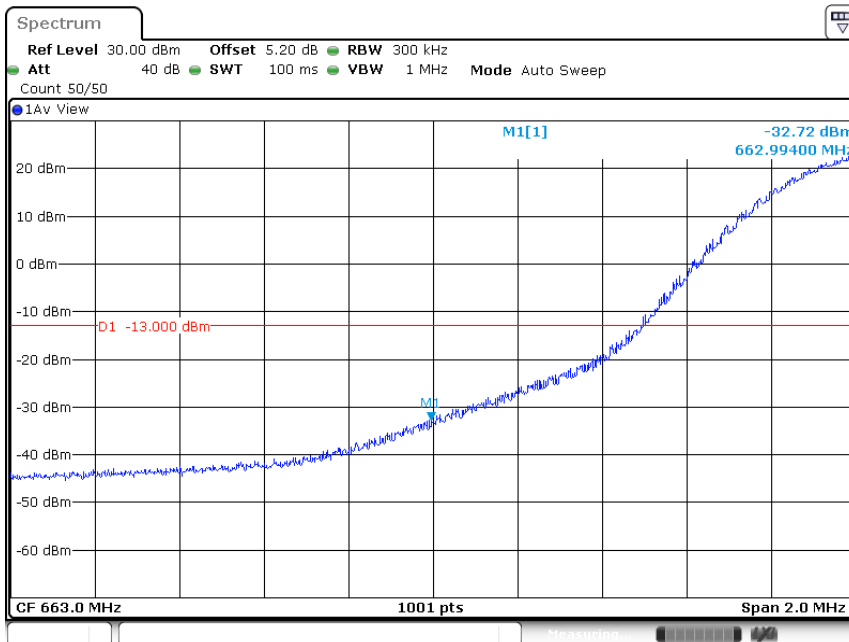
Band71-20MHz-QPSK-133372-100RB#0



Date: 23 NOV 2020 21:16:50

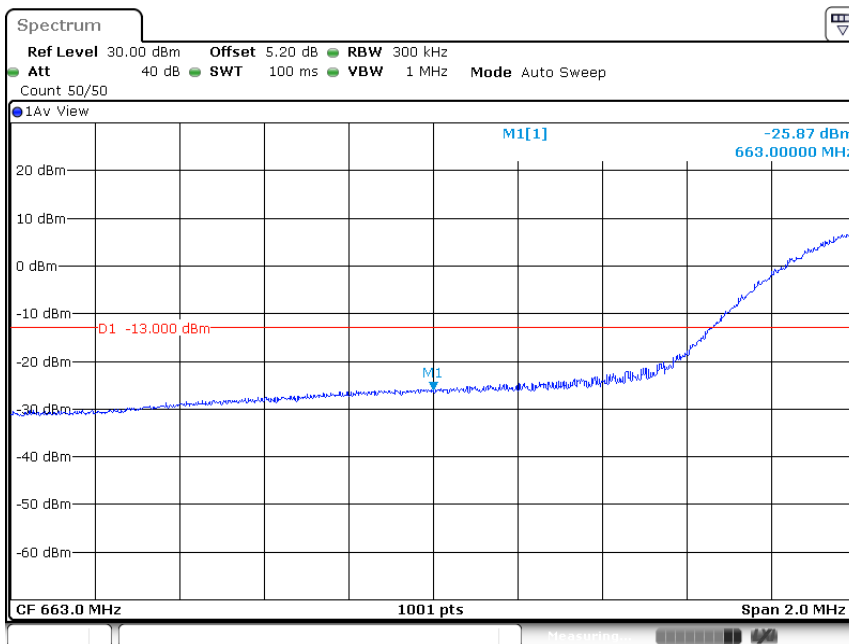


Band71-20MHz-16QAM-133222-1RB#0



Date: 18 NOV 2020 13:58:55

Band71-20MHz-16QAM-133222-27RB#0



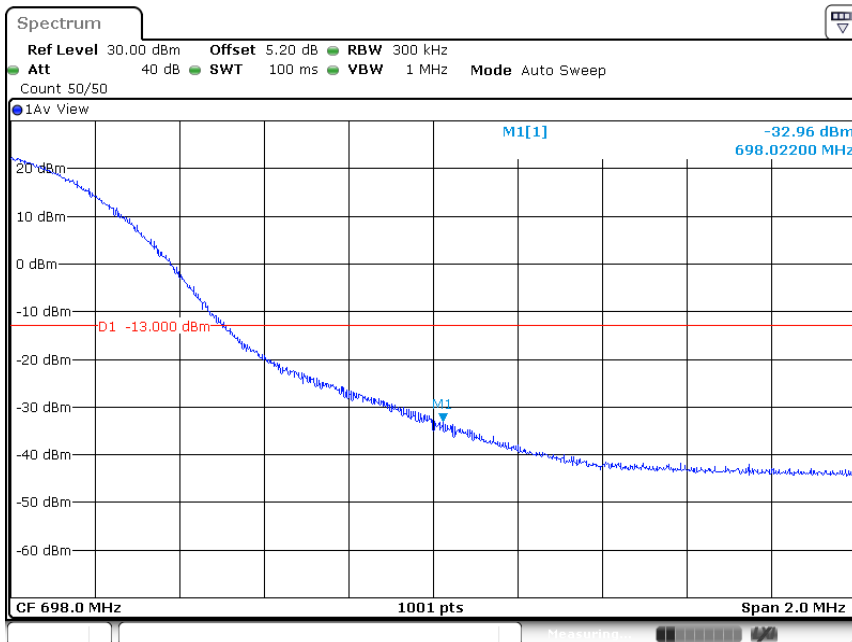
Date: 18 NOV 2020 13:59:14



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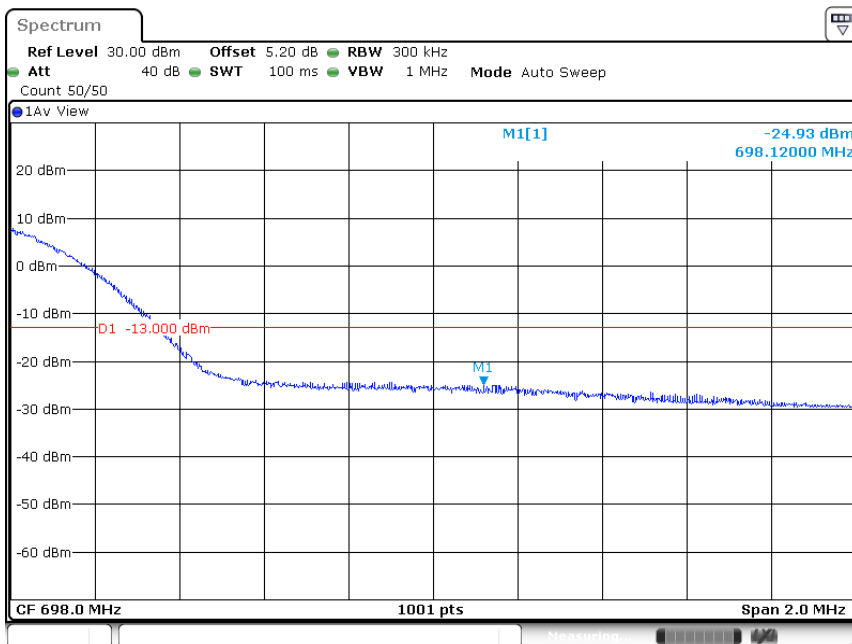
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Band71-20MHz-16QAM-133372-1RB#99



Date: 18 NOV 2020 13:59:42

Band71-20MHz-16QAM-133372-27RB#73



Date: 18 NOV 2020 14:00:01

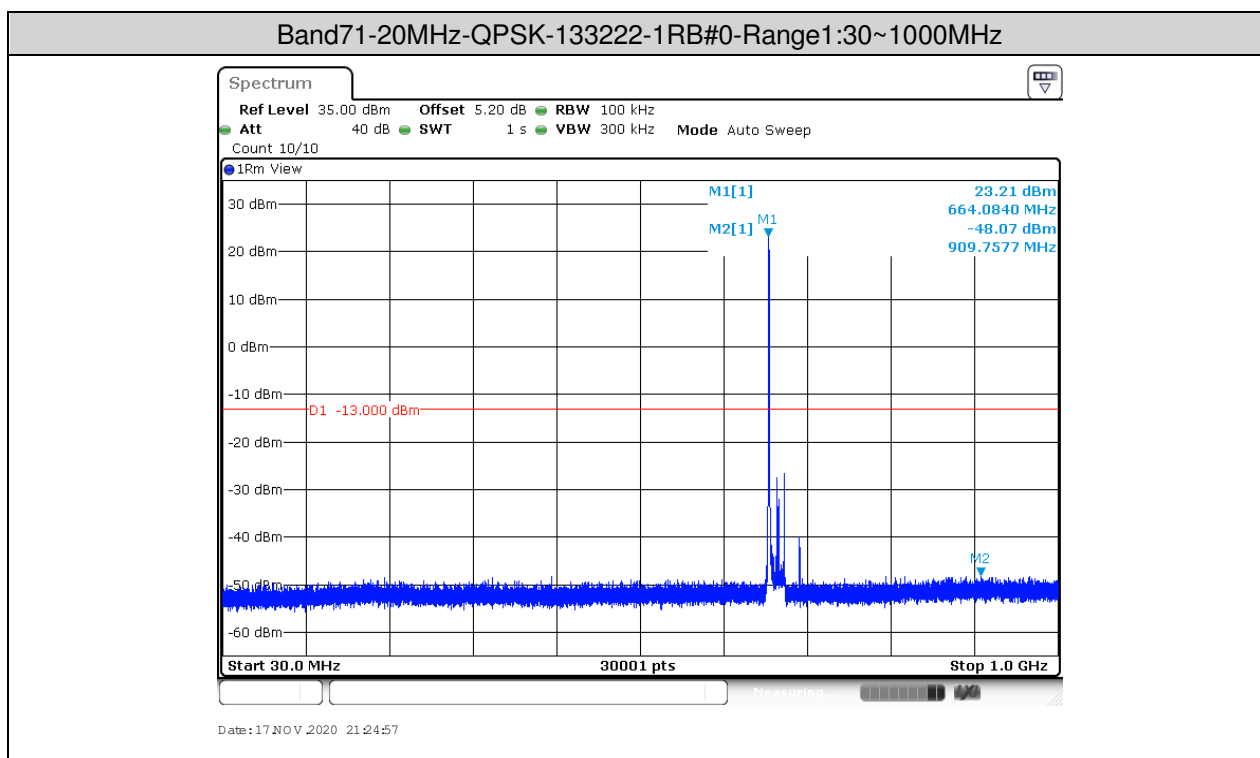


6 Spurious Emission at Antenna Terminal

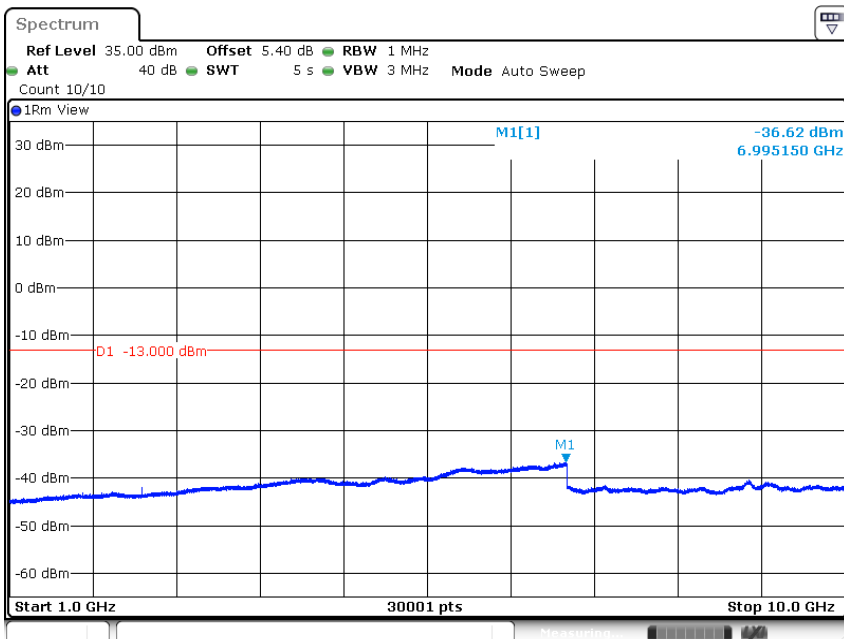
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k \cdot (\text{Span} / \text{RBW})$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

6.1 Test Plots

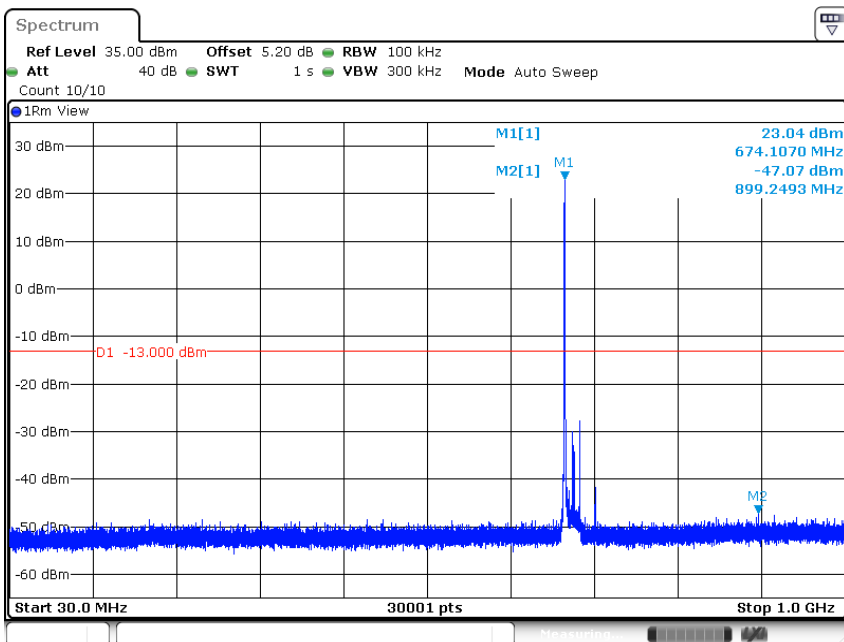


Band71-20MHz-QPSK-133222-1RB#0-Range2:1000~10000MHz



Date: 17 NOV 2020 21:26:08

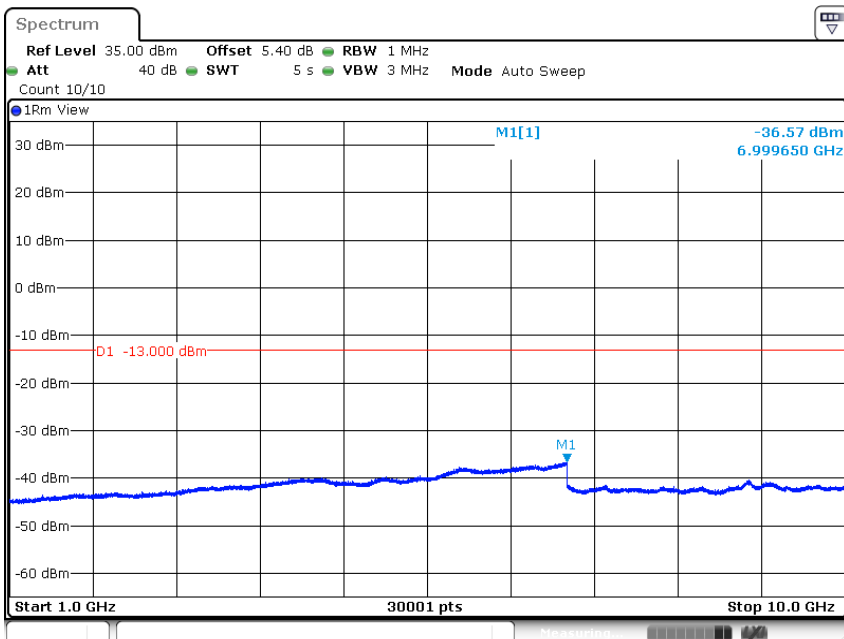
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Date: 17 NOV 2020 21:26:34

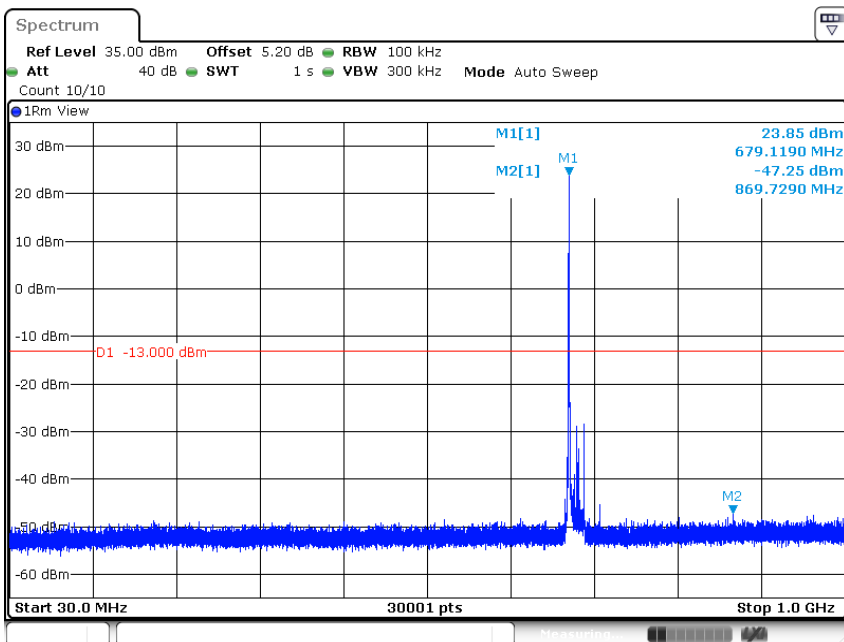


Band71-20MHz-QPSK-133322-1RB#0-Range2:1000~10000MHz



Date: 17 NOV 2020 21:27:45

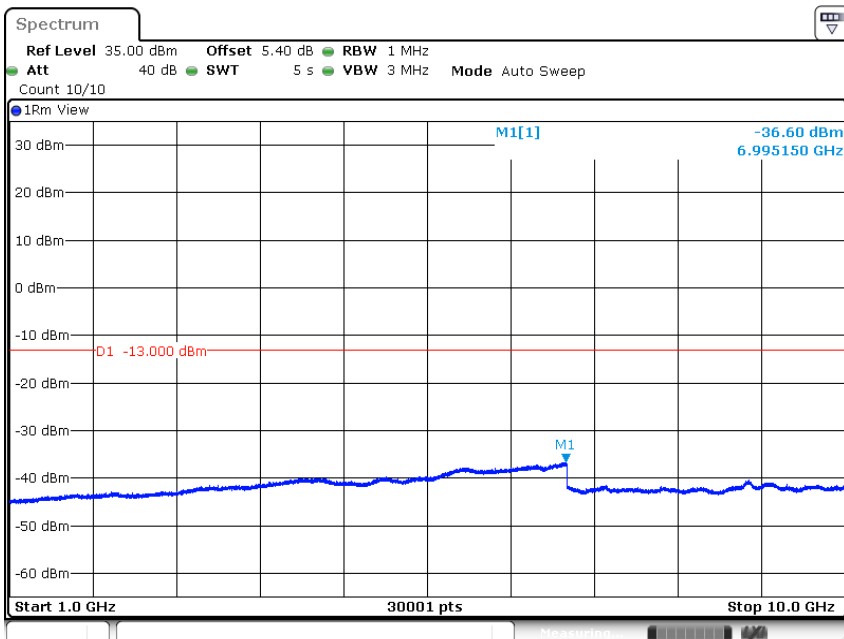
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Date: 17 NOV 2020 21:28:10

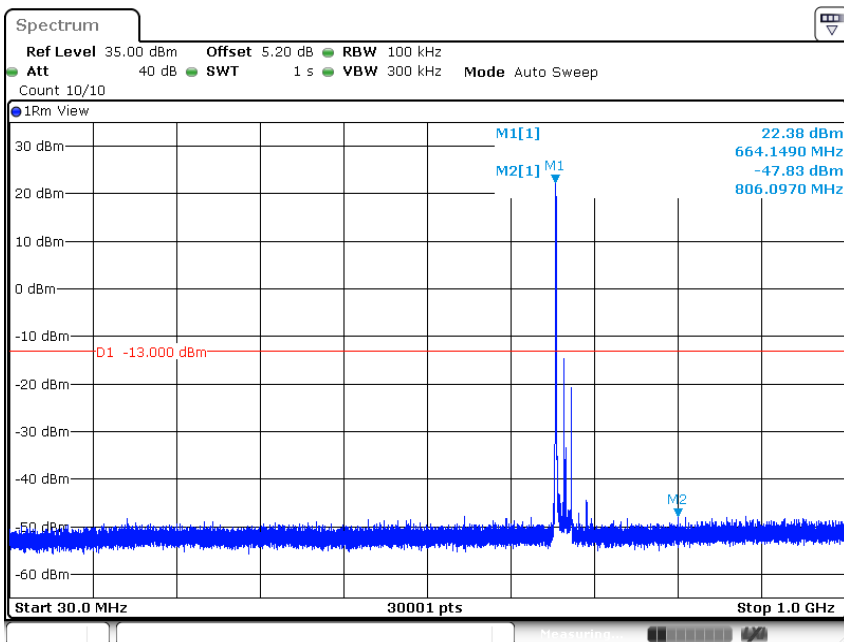


Band71-20MHz-QPSK-133372-1RB#0-Range2:1000~10000MHz



Date: 17 NOV 2020 21:29:21

Band71-20MHz-16QAM-133222-1RB#0-Range1:30~1000MHz



Date: 18 NOV 2020 14:00:31



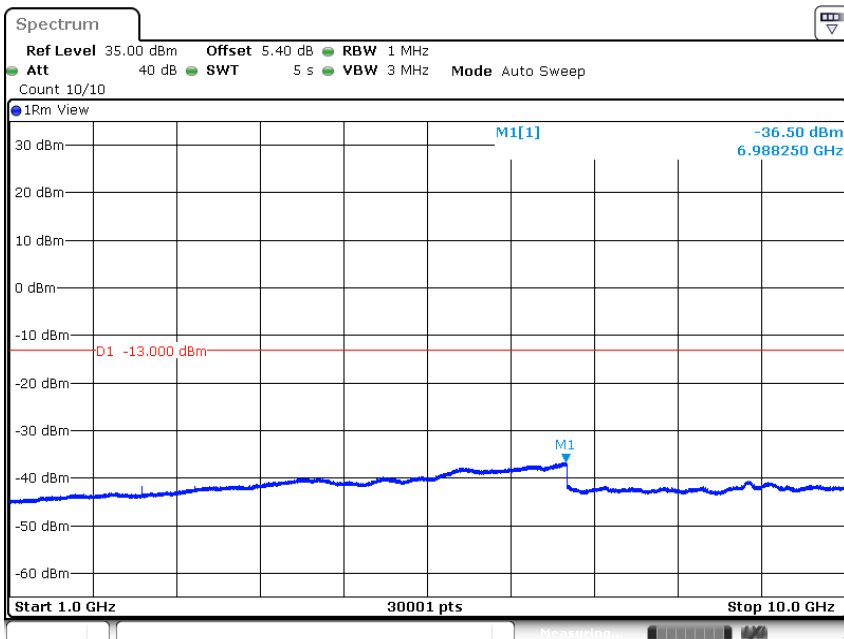
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch (CMAA) Laboratory

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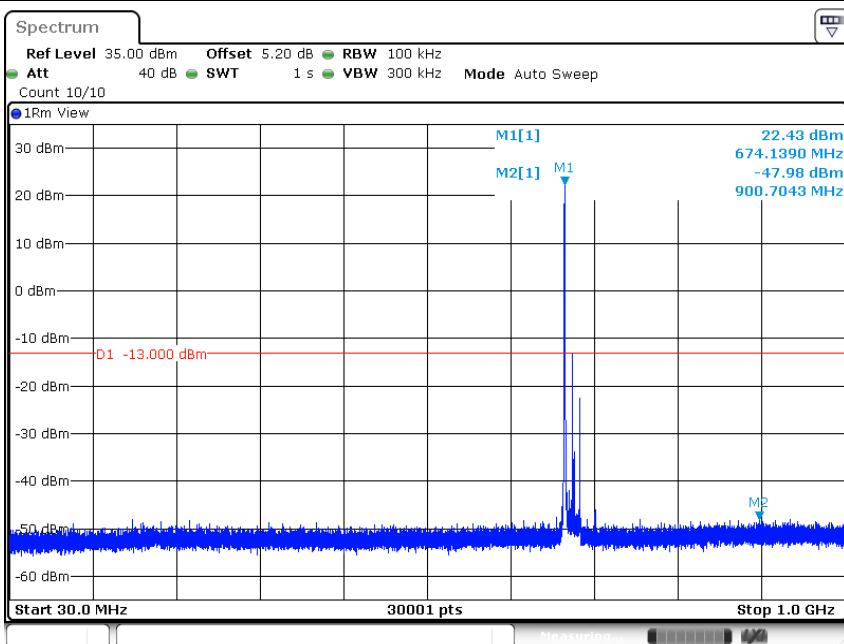
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Band71-20MHz-16QAM-133222-1RB#0-Range2:1000~10000MHz



Date: 18 NOV 2020 14:01:42

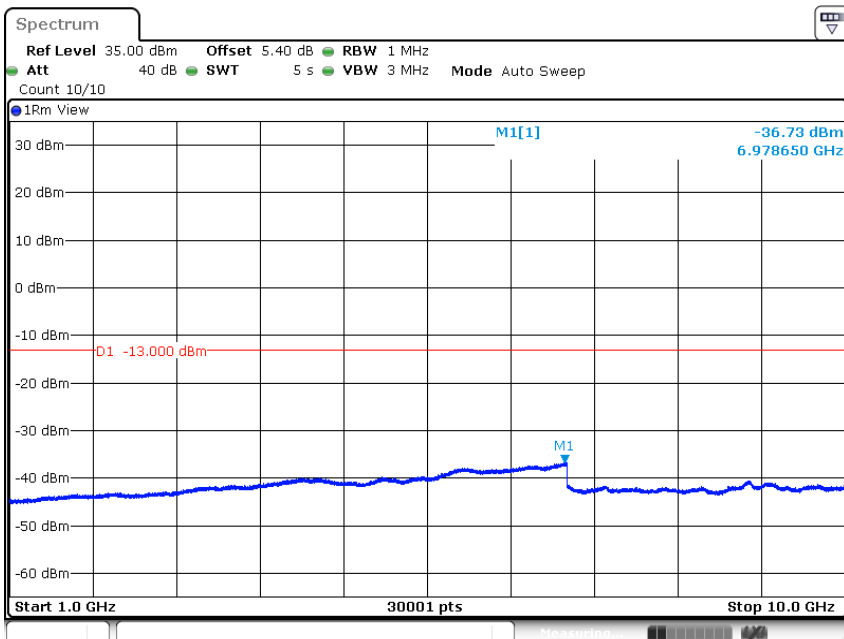
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Date: 18 NOV 2020 14:02:08

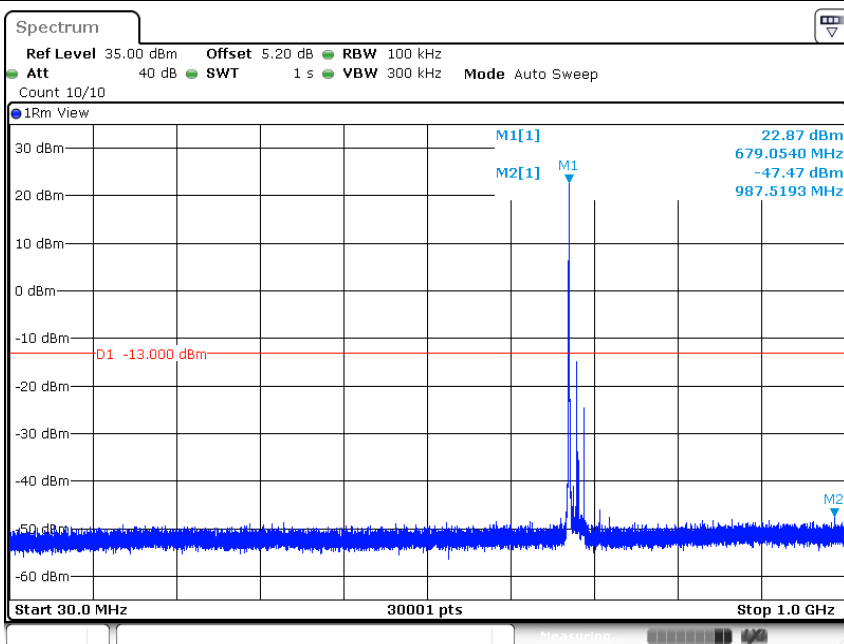


Band71-20MHz-16QAM-133322-1RB#0-Range2:1000~10000MHz



Date: 18 NOV 2020 14:03:19

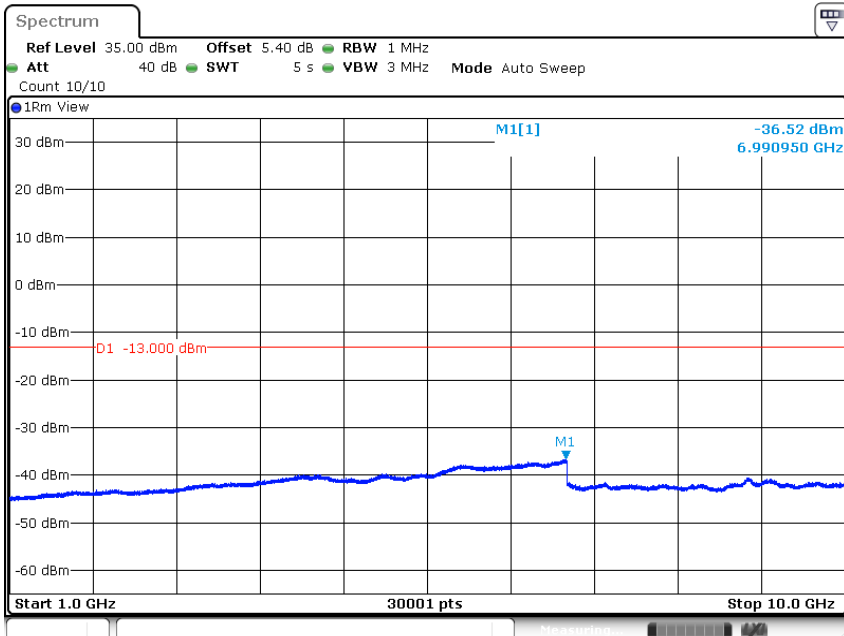
Band71-20MHz-16QAM-133372-1RB#0-Range1:30~1000MHz



Date: 18 NOV 2020 14:03:44



Band71-20MHz-16QAM-133372-1RB#0-Range2:1000~10000MHz



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7 Field Strength of Spurious Radiation

7.1 Test Mode =LTE/TM1 20MHz

7.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
46.1998	-58.62	-13.00	45.62	Vertical
75.2043	-59.22	-13.00	46.22	Vertical
118.9049	-60.87	-13.00	47.87	Vertical
1328.0656	-61.71	-13.00	48.71	Vertical
2695.9392	-54.35	-13.00	41.35	Vertical
9269.7308	-52.12	-13.00	39.12	Vertical
48.2369	-57.40	-13.00	44.40	Horizontal
117.3044	-68.16	-13.00	55.16	Horizontal
234.8742	-64.55	-13.00	51.55	Horizontal
1328.0656	-58.35	-13.00	45.35	Horizontal
2698.3397	-52.95	-13.00	39.95	Horizontal
9237.8095	-52.94	-13.00	39.94	Horizontal

7.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
46.9758	-59.00	-13.00	46.00	Vertical
74.6222	-59.70	-13.00	46.70	Vertical
119.3415	-60.93	-13.00	47.93	Vertical
1343.2687	-63.55	-13.00	50.55	Vertical
2014.6029	-50.10	-13.00	37.10	Vertical
9311.7325	-51.41	-13.00	38.41	Vertical
47.2669	-57.91	-13.00	44.91	Horizontal
118.6624	-67.34	-13.00	54.34	Horizontal
236.2808	-65.94	-13.00	52.94	Horizontal
1343.2687	-64.29	-13.00	51.29	Horizontal
2014.6029	-47.96	-13.00	34.96	Horizontal
9277.8511	-51.53	-13.00	38.53	Horizontal



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7.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.7405	-58.16	-13.00	45.16	Vertical
119.9720	-60.38	-13.00	47.38	Vertical
517.1584	-65.19	-13.00	52.19	Vertical
1358.0716	-62.99	-13.00	49.99	Vertical
2688.3377	-54.18	-13.00	41.18	Vertical
9330.4932	-51.25	-13.00	38.25	Vertical
46.4423	-57.65	-13.00	44.65	Horizontal
116.9648	-66.97	-13.00	53.97	Horizontal
233.2252	-66.35	-13.00	53.35	Horizontal
1358.0716	-61.38	-13.00	48.38	Horizontal
2697.5395	-52.99	-13.00	39.99	Horizontal
9315.3726	-51.54	-13.00	38.54	Horizontal

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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8 Frequency Stability

8.1 Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	VL	NT	1.70	0.002526	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	VN	NT	2.10	0.003120	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	VH	NT	3.30	0.004903	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	-2.60	-0.003807	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	-0.80	-0.001171	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	-2.60	-0.003807	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VL	NT	2.70	0.003924	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VN	NT	1.60	0.002326	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VH	NT	3.80	0.005523	±2.5	PASS
Band71	20MHz	16QAM	133222	27RB#0	VL	NT	4.90	0.007281	±2.5	PASS
Band71	20MHz	16QAM	133222	27RB#0	VN	NT	8.30	0.012333	±2.5	PASS
Band71	20MHz	16QAM	133222	27RB#0	VH	NT	1.20	0.001783	±2.5	PASS
Band71	20MHz	16QAM	133322	27RB#0	VL	NT	-3.40	-0.004978	±2.5	PASS
Band71	20MHz	16QAM	133322	27RB#0	VN	NT	0.10	0.000146	±2.5	PASS
Band71	20MHz	16QAM	133322	27RB#0	VH	NT	0.30	0.000439	±2.5	PASS
Band71	20MHz	16QAM	133372	27RB#0	VL	NT	-5.00	-0.007267	±2.5	PASS
Band71	20MHz	16QAM	133372	27RB#0	VN	NT	-2.10	-0.003052	±2.5	PASS
Band71	20MHz	16QAM	133372	27RB#0	VH	NT	-0.80	-0.001163	±2.5	PASS



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8.2 Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	NV	-30	4.20	0.006241	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	-20	3.00	0.004458	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	-10	3.31	0.004918	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	0	1.10	0.001634	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	10	4.40	0.006538	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	20	3.60	0.005349	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	30	-2.50	-0.003715	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	40	-0.40	-0.000594	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	50	-3.40	-0.005052	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-30	-1.90	-0.002782	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	-1.60	-0.002343	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	-2.76	-0.004041	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	2.50	0.003660	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	3.40	0.004978	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	1.10	0.001611	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	0.40	0.000586	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	0.80	0.001171	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	6.00	0.008785	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-30	0.30	0.000436	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-20	-0.30	-0.000436	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-10	1.38	0.002006	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	0	4.20	0.006105	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	10	0.70	0.001017	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	20	1.40	0.002035	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	30	-0.70	-0.001017	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	40	-1.30	-0.001890	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	50	-0.60	-0.000872	±2.5	PASS
Band71	20MHz	16QAM	133222	27RB#0	NV	-30	-5.60	-0.008321	±2.5	PASS
Band71	20MHz	16QAM	133222	27RB#0	NV	-20	-2.00	-0.002972	±2.5	PASS
Band71	20MHz	16QAM	133222	27RB#0	NV	-10	-3.52	-0.005230	±2.5	PASS
Band71	20MHz	16QAM	133222	27RB#0	NV	0	-3.60	-0.005349	±2.5	PASS
Band71	20MHz	16QAM	133222	27RB#0	NV	10	-4.30	-0.006389	±2.5	PASS
Band71	20MHz	16QAM	133222	27RB#0	NV	20	-2.40	-0.003566	±2.5	PASS
Band71	20MHz	16QAM	133222	27RB#0	NV	30	-5.70	-0.008470	±2.5	PASS
Band71	20MHz	16QAM	133222	27RB#0	NV	40	1.40	0.002080	±2.5	PASS



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Band71	20MHz	16QAM	133222	27RB#0	NV	50	2.70	0.004012	±2.5	PASS
Band71	20MHz	16QAM	133322	27RB#0	NV	-30	5.40	0.007906	±2.5	PASS
Band71	20MHz	16QAM	133322	27RB#0	NV	-20	3.20	0.004685	±2.5	PASS
Band71	20MHz	16QAM	133322	27RB#0	NV	-10	2.75	0.004026	±2.5	PASS
Band71	20MHz	16QAM	133322	27RB#0	NV	0	5.00	0.007321	±2.5	PASS
Band71	20MHz	16QAM	133322	27RB#0	NV	10	-1.50	-0.002196	±2.5	PASS
Band71	20MHz	16QAM	133322	27RB#0	NV	20	-3.00	-0.004392	±2.5	PASS
Band71	20MHz	16QAM	133322	27RB#0	NV	30	-3.60	-0.005271	±2.5	PASS
Band71	20MHz	16QAM	133322	27RB#0	NV	40	0.50	0.000732	±2.5	PASS
Band71	20MHz	16QAM	133322	27RB#0	NV	50	-0.80	-0.001171	±2.5	PASS
Band71	20MHz	16QAM	133372	27RB#0	NV	-30	1.20	0.001744	±2.5	PASS
Band71	20MHz	16QAM	133372	27RB#0	NV	-20	2.80	0.004070	±2.5	PASS
Band71	20MHz	16QAM	133372	27RB#0	NV	-10	1.67	0.002427	±2.5	PASS
Band71	20MHz	16QAM	133372	27RB#0	NV	0	3.50	0.005087	±2.5	PASS
Band71	20MHz	16QAM	133372	27RB#0	NV	10	3.10	0.004506	±2.5	PASS
Band71	20MHz	16QAM	133372	27RB#0	NV	20	-0.20	-0.000291	±2.5	PASS
Band71	20MHz	16QAM	133372	27RB#0	NV	30	-1.45	-0.002108	±2.5	PASS
Band71	20MHz	16QAM	133372	27RB#0	NV	40	-0.54	-0.000785	±2.5	PASS
Band71	20MHz	16QAM	133372	27RB#0	NV	50	3.76	0.005465	±2.5	PASS

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